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* /okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java
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* /okio-1-13-0-sources-2-jar/okio/Util.java
* /okio-1-13-0-sources-2-jar/okio/Buffer.java
* /okio-1-13-0-sources-2-jar/okio/Segment.java
* /okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
* /okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
* /okio-1-13-0-sources-2-jar/okio/Timeout.java
* /okio-1-13-0-sources-2-jar/okio/Sink.java
*
 /okio-1-13-0-sources-2-jar/okio/SegmentPool.java
* /okio-1-13-0-sources-2-jar/okio/GzipSink.java
* /okio-1-13-0-sources-2-jar/okio/DeflaterSink.java
* /okio-1-13-0-sources-2-jar/okio/Okio.java
* /okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java
* /okio-1-13-0-sources-2-jar/okio/BufferedSource.java
* /okio-1-13-0-sources-2-jar/okio/InflaterSource.java
* /okio-1-13-0-sources-2-jar/okio/BufferedSink.java
* /okio-1-13-0-sources-2-jar/okio/Source.java
* /okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java
* /okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
* /okio-1-13-0-sources-2-jar/okio/GzipSource.java
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* /okio-1-13-0-sources-2-jar/okio/Pipe.java
* /okio-1-13-0-sources-2-jar/okio/HashingSource.java
* /okio-1-13-0-sources-2-jar/okio/HashingSink.java
* /okio-1-13-0-sources-2-jar/okio/Options.java
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* /okio-1-13-0-sources-2-jar/okio/Utf8.java

1.2 grpc-context 1.9.0

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1.3 opentracing-noop 0.31.0

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* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java
* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanContext.java
* /opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java
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* /opentracing-noop-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

1.4 grpc-protobuf-lite 1.9.0

1.5 opencensus-api 0.10.0

1.6 opencensus-contrib-grpc-metrics 0.10.0

1.7 c3p0 0.9.1.1

1.7.1 Available under license :

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1.8 scalap 2.10.0

1.9 reflections 0.9.9

1.10 txw2 2.3.1

1.11 joda-convert 1.2

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1.14 javaip 0.16

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1.17 bson4jackson 2.7.0

1.18 jtoml 1.0.0

1.19 okhttp 3.9.0

1.20 jeromq 0.3.2

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1.21 typetools 0.3.1

1.22 paranamer 2.5.6

1.23 jakarta-jws-api 1.1.1

1.23.1 Available under license :

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1.24 jcip-annotation 1.0

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Found in path(s):
* /jcip-annotations-1-0-sources-jar/net/jcip/annotations/ThreadSafe.java
* /jcip-annotations-1-0-sources-jar/net/jcip/annotations/NotThreadSafe.java
* /jcip-annotations-1-0-sources-jar/net/jcip/annotations/Immutable.java
* /jcip-annotations-1-0-sources-jar/net/jcip/annotations/GuardedBy.java

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```
<html>
<body>
<p>
 Class, field, and method level annotations for describing thread-safety policies.
</p>

<p>
 Three class-level annotations describe the <em>intended</em> thread-safety promises of a class:
 <code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>.
 <code>@Immutable</code> means that the class is immutable,
 and implies <code>@ThreadSafe</code>.
 <code>@NotThreadSafe</code> is optional;
 if a class is not annotated as thread-safe, it should be presumed not to be
 thread-safe, but if you want to make it extra clear, use
 <code>@NotThreadSafe</code>.
</p>

<p>
 These annotations are relatively unintrusive and are beneficial to
 both users and maintainers.  Users can see immediately whether a class
 is thread-safe, and maintainers can see immediately whether
 thread-safety guarantees must be preserved.  Annotations are also
 useful to a third
 constituency: tools.  Static code-analysis tools may
 be able to verify that the code complies with the contract indicated
 by the annotation, such as verifying that a class annotated with
 <code>@Immutable</code> actually is immutable.
</p>
```

<h2>Field and method annotations</h2>

The class-level annotations above are part of the public documentation
for the class. Other aspects of a class's thread-safety strategy are
entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are
guarded with which locks, and which locks are used to guard those
variables. A common source of inadvertent non-thread-safety is when a
thread-safe class consistently uses locking to guard its state, but is
later modified to add either new state variables that are not
adequately guarded by locking, or new methods that do not use locking
properly to guard the existing state variables.
 Documenting which
variables are guarded by which locks can help prevent both types of
omissions.

The <code>@GuardedBy(lock)</code> annotation documents that a field or method should
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</body>
</html>

Found in path(s):
* /jcip-annotations-1-0-sources-jar/net/jcip/annotations/package.html

1.25 jcip-annotation 1.0-1

1.26 javax-inject 1

1.26.1 Available under license :

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Found in path(s):
* /javax-inject-1-sources-jar/javax/inject/Singleton.java
* /javax-inject-1-sources-jar/javax/inject/Inject.java
* /javax-inject-1-sources-jar/javax/inject/Scope.java
* /javax-inject-1-sources-jar/javax/inject/Qualifier.java
* /javax-inject-1-sources-jar/javax/inject/Named.java
* /javax-inject-1-sources-jar/javax/inject/Provider.java
*
/javax-inject-1-sources-jar/javax/inject/package-info.java

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The initial code for shuffling an array (originally in class
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a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham
(University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java
* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/MatrixParam.java
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* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Variant.java
* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Consumes.java

* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/FactoryFinder.java
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* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/FormParam.java
* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/EntityTag.java
* /javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Produces.java

1.32 gson 2.7

1.33 commons-dbcp 1.4

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1.34 jaxb-api 2.3.0

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1.36 protobuf-java 3.5.1

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1.37 commons-beanutils 1.8.3

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1.45 j2objc-annotations 1.3

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Found in path(s):
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Weak.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/AutoreleasePool.java
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* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedWith.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ReflectionSupport.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/Property.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/LoopTranslation.java
*
/j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /j2objc-annotations-1-3-sources-jar/com/google/j2objc/annotations/ObjectiveCName.java

1.46 scala-compiler 2.10.0

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1.47 jaxen 1.1.6

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* $Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.java
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* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
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```

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* /jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNumberExpr.java
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleNamespaceContext.java
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* $Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo $
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* $Revision: 1245 $
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* $Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo $
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*
* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
```

```
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*
* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java
```

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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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*
```

* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/LinkedIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EvaluateFunction.java
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* $Revision: 1128 $
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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
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* $Header$
* $Revision: 1386 $
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NumberFunction.java
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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
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* $Header$
* $Revision: 1321 $
* $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/StackedIterator.java
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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* $Revision: 1193 $
* $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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* $Revision: 1261 $
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*
* $Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPlusExpr.java
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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java
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* $Header$
* $Revision: 1332 $
* $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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* $Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.java
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* $Revision: 1128 $
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringBeforeFunction.java
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.java
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* $Revision: 1261 $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
*/
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelativeLocationPath.java
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* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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* $Header$
* $Revision: 1277 $
* $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $
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* $Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultBinaryExpr.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathException.java
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* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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* $Revision: 1396 $
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*
* $Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
*
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*
* $Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java
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/*
* $Header$
* $Revision: 1237 $
* $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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*
* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java
No license file was found, but licenses were detected in source scan.

/*

```
* $Header$
* $Revision: 1133 $
* $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
*
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*
* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java
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```
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java
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* $Header$
* $Revision: 1257 $
* $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingSiblingAxisIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ContainsFunction.java
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* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java
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* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingAxisIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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/*
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* $Header$
* $Revision: 1157 $
* $Date: 2006-06-03 13:07:37 -0700 (Sat, 03 Jun 2006) $
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* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
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*
* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java
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/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultStep.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java
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* $Header$
* $Revision: 1134 $
* $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.java
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NamespaceUriFunction.java
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* $Revision: 1154 $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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* $Header$
* $Revision: 1324 $
* $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
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* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: Function.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/Function.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1234 $
* $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LocalNameFunction.java
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* $Header$
* $Revision: 1302 $
* $Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java
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* $Revision: 1235 $
* $Date: 2006-11-08 09:02:21 -0800 (Wed, 08 Nov 2006) $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java
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/*
$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $

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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java
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* $Header$
* $Revision: 1128 $

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* $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/UnionPattern.java
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*
* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1366 $
* $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: Expr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $
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/*

$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java
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* $Header$
* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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*
* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
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* $Header$
* $Revision: 1226 $
* $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
*/

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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java
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* $Revision: 1128 $
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
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* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
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* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyNodeTest.java
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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java
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* $Revision: $
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* $Id: $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java
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$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* $Header$
* $Revision: 1268 $
* $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
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/*
* $Header$
* $Revision: 1258 $
* $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $
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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PredicateSet.java
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
*/
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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java
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* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
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* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/RelationalExpr.java
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* $Revision: 1261 $
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* $Id: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java
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* $Revision: 1261 $
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Revision: 1128 $
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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/TextNodeTest.java
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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/*
$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java
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* $Header$

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* $Revision: 1257 $
* $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
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*
* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingletonList.java
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/*
* $Header$
* $Revision: 1156 $
* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/xom/DocumentNavigator.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java
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* $Revision: 1128 $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/FunctionContext.java
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* $Header$
* $Revision: 1128 $

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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/CeilingFunction.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java
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* $Revision: 1179 $
* $Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
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/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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*
* $Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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* $Header$
* $Revision: 1261 $
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* $Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Header$
* $Revision: 1198 $
* $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java
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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java
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* $Header$
* $Revision: 1325 $
* $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java
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* $Header$
* $Revision: 1273 $
* $Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
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* $Header$
* $Revision: 1128 $
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java
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* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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* $Header$
* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NameStep.java
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* $Header$
* $Revision: 1279 $
* $Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.java
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* $Header$
* $Revision: 1306 $
* $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1128 $
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Verifier.java
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantAxisIterator.java
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/SubstringAfterFunction.java
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* $Revision: 1132 $
* $Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) $
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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
*/

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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java
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* $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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*
* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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* $Header$
* $Revision: 1128 $

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* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/DefaultNavigator.java
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* $Header$
* $Revision: 1228 $
* $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* Id
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NodeComparator.java
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* $Revision: 1128 $
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.java
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
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1.58 ehcache-terracotta 2.6.5

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*/
/**
   * Returns a list of all element keys in the cache, whether or not they are expired.
   * <p/>
   * The returned keys are unique and can almost be considered a set. See {@link net.sf.ehcache.store.CacheKeySet
CacheKeySet} for
   * more details.
   * <p/>
   * The List returned is not live. It is a copy.
    * <p/>
   * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
   * for each 1000 entries.
   *
   * @return a list of {@link Object} keys
   * @throws IllegalStateException if the cache is not {@link Status#STATUS_ALIVE}
   * @see net.sf.ehcache.store.CacheKeySet
   */
```

Found in path(s):
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```

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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheTransactionalDataRegion.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/NodeElementVisitor.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/concurrent/ReadWriteLockSync.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/DiskStorageFactory.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RmiEventMessage.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopActiveDelegateHolder.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/Selector.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/StripedReadWriteLockProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonStopCacheException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Aggregators.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMICachePeer.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/EventMessage.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/package-info.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/LockOperationTimedOutNonstopException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/CacheManagerExecutorServiceFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/CacheException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/TransactionInterruptedException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/AtomicLongSequence.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/EhcacheHibernateMBean.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/TimeStampedCounterValue.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/BalancedAccessOnHeapPoolEvictor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/TaskNotSubmittedTimeoutException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractPool.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockID.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/compound/ImmutableValueElementCopyStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EntityStats.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/loader/CacheLoaderFactory.java
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jar/net/sf/ehcache/config/generator/model/elements/TerracottaConfigurationElement.java
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jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheEntityRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/KeyBasedOperation.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/ComparableValue.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/nonstop/NonstopAwareCollectionRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/XATransactionContext.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/CacheWriterConfiguration.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/FactoryConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/SampledCache.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Between.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/blocking/SelfPopulatingCache.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/LruPolicy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/TransactionIDSerializedForm.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/CacheConfiguration.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/CacheEventListenerAdapter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/cluster/ClusterSchemeNotAvailableException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/XATransactionStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/GroupedResultImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/commands/StorePutCommand.java
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 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/UnlockedRateStatistic.java
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jar/net/sf/ehcache/config/generator/model/elements/DefaultCacheConfigurationElement.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMICacheManagerPeerProvider.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/TimeProviderLoader.java
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jar/net/sf/ehcache/hibernate/strategy/ReadOnlyEhcacheCollectionRegionAccessStrategy.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/PayloadUtil.java
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 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/TerracottaCacheEventReplicationFactory.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/util/OverrideCheck.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/Utils.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/SampledCacheManagerMBean.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/CacheWriterManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/filter/ResourceSizeOfFilter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/FeaturesManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledCounterImpl.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/nonstop/NonstopAwareEntityRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/ReadOnlyEhcacheEntityRegionAccessStrategy.java
*
/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AtomicPoolAccessor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/ConfigurationFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/LiveCacheStatisticsImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/PoolableStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/TerracottaConfiguration.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/store/RejoinAwareNonstopStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/FactorySelector.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/EhcacheXAException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/OperationConverter.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledRateCounter.java
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/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/NonstopConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/CacheWriterFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/EhcacheCoreInit.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/MemoryUnit.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Ehcache.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/TimeoutBehaviorConfiguration.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/CircularLossyQueue.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryOnlyStore.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/filter/AnnotationSizeOfFilter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/concurrent/CacheLockProvider.java
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/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopTimeoutBehaviorFactory.java
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jar/net/sf/ehcache/config/generator/model/elements/CacheWriterConfigurationElement.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/sampled/SampledCacheStatisticsImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopThreadUniqueIdProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/ProviderMBeanRegistrationHelper.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/LiveCacheStatisticsWrapper.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/DisconnectedClusterNode.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/NodeElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/WeakIdentityConcurrentMap.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/lang/VicariousThreadLocal.java

1.59 easymock 3.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.65 quartz 2.2.1

1.66 commons-pool 1.5.3

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1.67 javax-el 2.2.4

1.68 jackson-datatype-joda 2.4.2

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1.69 swagger-springmvc 0.8.8

1.70 swagger-models 0.8.8

1.71 config 1.0.2

1.72 swagger-core 1.5.0

1.73 javax-el-api 2.2.4

1.74 cassandra-driver-core 2.1.0

1.75 commons-net 3.0

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1.76 swagger-annotations 1.5.0

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*/

package io.swagger.annotations;

import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
* License metadata available within the info section of a Swagger definition, see
* https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject
*
* @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

  /**
```

```
     * The name of the license.
     *
     * @return the name of the license
     */
    String name();

    /**
     * An optional URL for the license.
     *
     * @return an optional URL for the license.
     */
    String url() default "";
}
```

1.77 commons-lang3 3.6

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.84 curvesapi 1.06

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Found in path(s):
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/AcoshFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/ExpressionTree.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/SqrtFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/FloorFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/CombinFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/CubicBSpline.java
*

/curvesapi-1-06-sources-jar/com/graphbuilder/math/MultNode.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/LagrangeCurve.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/FuncNode.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/TanFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/TanhFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/Function.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/CoshFunction.java
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/curvesapi-1-06-sources-jar/com/graphbuilder/math/func/EFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/AbsFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/MultiPath.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/AddNode.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/ControlPath.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/PascalsTriangle.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/AsinhFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/SignFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/SinFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/NURBSpline.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/ControlStringParseException.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/geom/PointFactory.java
*
/curvesapi-1-06-sources-jar/com/graphbuilder/curve/ValueVectorListener.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/struc/Bag.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/CosFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/PiFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/CatmullRomSpline.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/ModFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/SumFunction.java
*
/curvesapi-1-06-sources-jar/com/graphbuilder/struc/Stack.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/ParametricCurve.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/Point.java

* /curvesapi-1-06-sources-jar/com/graphbuilder/math/ExpressionParseException.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/RoundFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/BinaryCurveApproximationAlgorithm.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/AcosFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/AtanhFunction.java
*
 /curvesapi-1-06-sources-jar/com/graphbuilder/struc/LinkedList.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/geom/Point2d.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/ExpFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/MinFunction.java
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* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/RandFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/LogFunction.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/curve/Curve.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/math/Expression.java
* /curvesapi-1-06-sources-jar/com/graphbuilder/geom/Point3d.java
*
 /curvesapi-1-06-sources-jar/com/graphbuilder/math/func/SinhFunction.java
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1.85 jetty-continuation 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.86 jetty-util 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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These artifacts replace/modify OpenJDK classes. The modifications
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org.mortbay.jasper:apache-jsp
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 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.90 jetty-client 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.97 jetty-http-spi 9.4.18.v20190429

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jsp-api
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 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.99 websocket-servlet 9.4.18.v20190429

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.100 metrics-jetty 4.1.0

1.101 commons-collections 4.4

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1.102 cglib-nodep 3.2.7

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1.104 hk2-utils 2.6.1

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1.105 hk2-api 2.6.1

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1.109 java-jwt 3.8.3

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inbot-utils (https://github.com/Inbot/inbot-utils)

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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/package-info.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/ThumbprintUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JOSEObjectType.java
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* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/JWSSigner.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/IntegerUtils.java
* /nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jwt/JWTParser.java

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* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryListener.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/RetryContextCache.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/listener/RetryListenerSupport.java
* /spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/interceptor/NewMethodArgumentsIdentifier.java
*
 /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/ExhaustedRetryException.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/Classifier.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/TimeoutRetryPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryContext.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryStatistics.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySimulation.java
* /spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/policy/RetryCacheCapacityExceededException.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryCallback.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryException.java
*
 /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RetryOperations.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/NeverRetryPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/BackOffPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/DefaultRetryState.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/TerminatedRetryException.java
* /spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/interceptor/MethodArgumentsKeyGenerator.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/ClassifierAdapter.java

* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/Sleeper.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySynchronizationManager.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/ExceptionClassifierRetryPolicy.java
*
 /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/RecoveryCallback.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/CompositeRetryPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/policy/AlwaysRetryPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/ObjectWaitSleeper.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/PatternMatchingClassifier.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetrySimulator.java
* /spring-retry-1-2-5-release-sources-
jar/org/springframework/retry/policy/SoftReferenceMapRetryContextCache.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/BackToBackPatternClassifier.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/PatternMatcher.java
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* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/context/RetryContextSupport.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/support/RetryTemplate.java
*
 /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/ExponentialBackOffPolicy.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/FixedBackOffPolicy.java
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* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/backoff/ThreadWaitSleeper.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/annotation/RetryConfiguration.java
*
 /spring-retry-1-2-5-release-sources-jar/org/springframework/classify/util/SimpleMethodInvoker.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/interceptor/RetryInterceptorBuilder.java
* /spring-retry-1-2-5-release-sources-jar/org/springframework/retry/interceptor/Retryable.java

1.124 spring-web-mvc 4.3.19.RELEASE

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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/LastModified.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/ConversionServiceExposingInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/PropertiesMethodNameResolver.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityLayoutViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/SpringBeanPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/MediaTypeExpression.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityLayoutView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/RedirectAttributes.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/SimpleSpringPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/AbstractUrlMethodNameResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/ControllerClassNameHandlerMapping.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/InternalPathMethodNameResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/TagIdGenerator.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/SimpleSpringPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/ControllerBeanNameHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractSingleCheckedElementTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/AnnotationControllerTypePredicate.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/EditorAwareTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/JstlView.java
* /spring-webmvc-4-3-19-release-sources-1-

jar/org/springframework/web/servlet/mvc/HttpRequestHandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/ModelAndViewDefiningException.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ParamAware.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java
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 /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/SimpleServletHandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityConfig.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/multiaction/NoSuchRequestHandlingMethodException.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/velocity/VelocityViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/ValueFormatter.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/SimpleControllerHandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/AbstractSpringPreparerFactory.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/SmartView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/AbstractUrlViewController.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/RequestContextAwareTag.java
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*/
/**
* XSLT-driven View that allows for response context to be rendered as the
```

```
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in the
 model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
```

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jar/org/springframework/web/servlet/mvc/annotation/ResponseStatusExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceHttpRequestHandler.java
*
 /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/AcceptHeaderLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/TilesConfigurerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/SimpleMappingExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/AbstractHandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractJsonpResponseBodyAdvice.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/ScriptTemplateConfigurerBeanDefinitionParser.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/TagWriter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/PathResourceResolver.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractDataBoundFormElementTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/LabelTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractPdfView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/CompositeRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/XmlViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/FreeMarkerConfigurerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
*

/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/BindStatus.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/ResourceBundleViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/MappedInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/OptionsTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/FormTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/json/AbstractJackson2View.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/HandlerMappingIntrospector.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ConsumesRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/UrlBasedViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractHtmlElementTag.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/CheckboxesTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/AbstractHandlerMethodAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xml/MappingJackson2XmlView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/SelectTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/OptionTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/MatrixVariableMapMethodArgumentResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/TextareaTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/View.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/ProducesRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/GzipResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/AbstractView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/InputTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/ButtonTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/WebContentGenerator.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/ResourcesBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyEmitter.java
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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
 protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

Found in path(s):
* /spring-webmvc-4-3-19-release-sources-1-

jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ParamTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ArgumentAware.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/FlashMap.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java
*
 /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/VersionStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java
* /spring-webmvc-4-3-19-release-sources-1-

jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsxView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/TransformedResource.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/VersionPathStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/RequestContextUtils.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ViewRendererServlet.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ArgumentTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/NoHandlerFoundException.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/EncodedResource.java
*
/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/ModelAndViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractXlsxStreamingView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/document/AbstractExcelView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping.java
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/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/AbstractDispatcherServletInitializer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerExceptionResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/DefaultResourceTransformerChain.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/TransformTag.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/handler/SimpleUrlHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceResolverChain.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsMultiFormatView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/PatternsRequestCondition.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/multiaction/MultiActionController.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractXlsxView.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/HandlerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/HtmlEscapeTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/BindErrorsTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/BindTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/velocity/VelocityView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/document/AbstractJExcelView.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/LocaleContextResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/AbstractCachingViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ThemeResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ThemeTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/VelocityConfigurerBeanDefinitionParser.java
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/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/handler/HandlerMethodMappingNamingStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles2/TilesViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/tiles3/SpringWildcardServletTilesApplicationContext.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/TilesConfigurer.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsPdfView.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/InternalResourceView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/FlashMapManager.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.jav
a
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
*
/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsSingleFormatView.java
* /spring-webmvc-4-3-19-release-sources-1-

jar/org/springframework/web/servlet/view/jasperreports/JasperReportsCsvView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsHtmlView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesViewResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/support/AbstractControllerUrlHandlerMapping.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/feed/AbstractAtomFeedView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/TilesView.java
*
 /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles2/TilesView.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/UrlFilenameViewController.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xml/MarshallingView.java
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jar/org/springframework/web/servlet/mvc/support/ControllerTypePredicate.java
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jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
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jar/org/springframework/web/servlet/handler/DispatcherServletWebRequest.java
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jar/org/springframework/web/servlet/view/velocity/VelocityToolboxView.java
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jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/ViewResolversBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/UriComponentsBuilderMethodArgumentResolver.jav
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jar/org/springframework/web/servlet/mvc/method/RequestMappingInfo.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java
* /spring-webmvc-4-3-19-release-sources-1-
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/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java

* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBodyReturnValueHandler.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestMethodArgumentResolver.java
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/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/script/ScriptTemplateView.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseBodyAdvice.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java
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* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerAdapter.java
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java
* /spring-webmvc-4-3-19-release-sources-1-

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/spring-webmvc-4-3-19-release-sources-1-
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/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/VersionedResource.java
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
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* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java
* /spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewResponseBodyAdvice.java
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Found in path(s):
* /spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java

1.125 spring-instrument 4.3.19.RELEASE

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* /spring-instrument-4-3-19-release-sources-jar/org/springframework/instrument/InstrumentationSavingAgent.java

1.126 swagger-core 2.1.2

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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.core
Bnd-LastModified: 1585747900398
Build-Jdk: 1.8.0_151
Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Mave
n repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-core
Bundle-SymbolicName: io.swagger.core.v3.swagger-core
Bundle-Version: 2.1.2
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.v3.core.model;version="2.1.2",io.swagger.v3
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mode: development
package: io.swagger
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-core

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1.127 swagger-annotations 2.1.2

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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Server.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/License.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Info.java
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* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
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1.128 swagger-integration 2.1.2

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1.129 swagger-models 2.1.2

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/SSLSocketFactoryExtension.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonGenerator.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/MockSleeper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Lists.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/MultipartContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sleeper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOffUtils.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonFactory.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Objects.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Charsets.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpIOExceptionHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Throwables.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Preconditions.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteStreams.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NanoClock.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingStreamingContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/GenericData.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/FieldInfo.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/Atom.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpExecuteInterceptor.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/DateTime.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ClassInfo.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponseInterceptor.java

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponseException.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockLowLevelHttpRequest.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/CharEscapers.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/GenericJson.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Key.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/Escaper.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockHttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/rpc2/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/PercentEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/XmlHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlNamespaceDictionary.java
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 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/UnicodeEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/LowLevelHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/InputStreamContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpTransport.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/CustomizeJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpUnsuccessfulResponseHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpHeaders.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/GenericUrl.java
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 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/Platform.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayMap.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/package-info.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ContentEntity.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/AbstractAtomFeedParser.java
*
 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonToken.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockHttpContent.java

* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonGenerator.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/GenericXml.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/LowLevelHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/JsonHttpContent.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ApacheHttpTransport.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOff.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Types.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayValueMap.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BasicAuthentication.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NullValue.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpStatusCodes.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonString.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Value.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequestInitializer.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/HttpTesting.java

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/FileContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UriTemplate.java
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1.131 mvel2 2.4.7.Final

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 /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/Context.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/ClassWriter.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/MethodWriter.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/AnnotationWriter.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/FieldWriter.java
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 /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/signature/SignatureReader.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/TypePath.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/Opcodes.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/signature/SignatureWriter.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/ByteVector.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/FieldVisitor.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/Attribute.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/ClassTooLargeException.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/asm/CurrentFrame.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ConstructorAccessor.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticReferenceAccessor.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ThisValueAccessor.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java
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* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java
* /mvel2-2-4-7-final-sources-jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java
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1.140 shiro-config-ogdl 1.6.0

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1.141 javax-servlet-api 3.1.0

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1.142 httpcore 4.4.6

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*
/hibernate-commons-annotations-3-2-0-final-sources-2-jar/org/hibernate/annotations/common/reflection/XAnnotatedElement.java

1.144 websocket-client 9.4.18.v20190429

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.147 logback-classic 1.1.2

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1.150 springsource-org-apache-xerces 2.9.1

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*/
/**
    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA.  If
 so, this content model should not be used
    * for any purpose other than checking unique particle attribution
```

```
   *
   * @return a boolean that says whether this content has been compacted for UPA
   */
```

Found in path(s):
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java

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*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    *
 then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    *  method.
    * @param mode  The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema
 found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
```

```
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
     *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
    *   reference to the default error handler.
    * @exception DOMException
    *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
    *   not supported.
   */
```

Found in path(s):
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASModel.java
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*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
    * Unique Particle
 Attribution, Particle Derivation (Restriction),
    * Element Declrations Consistent.
    */

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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/AttrImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXInputSource.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMRepeatingLeaf.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/validation/EntityState.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLBElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/PSVIProvider.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/LocatorProxy.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLDoElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLSelectElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
*
 /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLEmElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLPElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLHeadElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
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* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSTerm.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLTdElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLCardElement.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java

* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/XMLLocatorWrapper.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/EncodingMap.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
*
/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/Method.java
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cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\". During validation against this schema, ambiguity would be created for those two particles.

Found in path(s):
* /com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
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Found in path(s):
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/datatypes/package.html
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*/
```

Found in path(s):
* /com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

1.151 swagger-models 1.5.0

1.151.1 Available under license :

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```
package io.swagger.models;

import com.fasterxml.jackson.annotation.JsonAnyGetter;
import com.fasterxml.jackson.annotation.JsonAnySetter;

import java.util.HashMap;
import java.util.Map;

public class Info {
  private String description;
  private String version;
  private String title;
  private String termsOfService;
  private Contact contact;
```

```
  private License license;
  private Map<String, Object> vendorExtensions = new HashMap<String, Object>();

  public Info version(String version) {
     this.setVersion(version);
     return this;
  }

  public Info title(String title) {
     this.setTitle(title);
     return this;
  }

  public Info description(String description) {
     this.setDescription(description);
     return this;
  }

  public Info termsOfService(String termsOfService) {
     this.setTermsOfService(termsOfService);
     return this;
  }

  public
 Info contact(Contact contact) {
     this.setContact(contact);
     return this;
  }

  public Info license(License license) {
     this.setLicense(license);
     return this;
  }

  public String getDescription() {
     return description;
  }

  public void setDescription(String description) {
     this.description = description;
  }

  public String getVersion() {
     return version;
  }

  public void setVersion(String version) {
     this.version = version;
```

```
}

public String getTitle() {
   return title;
}

public void setTitle(String title) {
   this.title = title;
}

public String getTermsOfService() {
   return termsOfService;
}

public void setTermsOfService(String termsOfService) {
   this.termsOfService = termsOfService;
}

public Contact getContact() {
   return contact;
}

public void setContact(Contact contact) {
   this.contact = contact;
}


public License getLicense() {
   return license;
}

public void setLicense(License license) {
   this.license = license;
}

public Info mergeWith(Info info) {
   if (info != null) {
      if (this.description == null) {
         this.description = info.description;
      }
      if (this.version == null) {
         this.version = info.version;
      }
      if (this.title == null) {
         this.title = info.title;
      }
      if (this.termsOfService == null) {
         this.termsOfService = info.termsOfService;
```

```
        }
        if (this.contact == null) {
            this.contact = info.contact;
        }
        if (this.license == null) {
            this.license = info.license;
        }
        if (this.vendorExtensions == null) {
            this.vendorExtensions = info.vendorExtensions;
        }
    }
    return this;
}

 @JsonAnyGetter
public Map<String, Object> getVendorExtensions() {
    return vendorExtensions;
}

@JsonAnySetter
public void setVendorExtension(String name, Object value) {
    if (name.startsWith("x-")) {
        vendorExtensions.put(name, value);
    }
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((contact == null) ? 0 : contact.hashCode());
    result = prime * result
            + ((description == null) ? 0 : description.hashCode());
    result = prime * result + ((license == null) ? 0 : license.hashCode());
    result = prime * result
            + ((termsOfService == null) ? 0 : termsOfService.hashCode());
    result = prime * result + ((title == null) ? 0 : title.hashCode());
    result = prime * result
            + ((vendorExtensions == null) ? 0 : vendorExtensions.hashCode());
    result = prime * result + ((version
== null) ? 0 : version.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
```

```
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        Info other = (Info) obj;
        if (contact == null) {
            if (other.contact != null) {
                return false;
            }
        } else if (!contact.equals(other.contact)) {
            return false;
        }
        if (description == null) {
            if (other.description != null) {
                return false;
            }
        } else if (!description.equals(other.description)) {
            return false;
        }
        if (license == null) {
            if (other.license != null) {
                return false;
            }
        } else if (!license.equals(other.license)) {
            return false;
        }
        if
    (termsOfService == null) {
            if (other.termsOfService != null) {
                return false;
            }
        } else if (!termsOfService.equals(other.termsOfService)) {
            return false;
        }
        if (title == null) {
            if (other.title != null) {
                return false;
            }
        } else if (!title.equals(other.title)) {
            return false;
        }
        if (vendorExtensions == null) {
            if (other.vendorExtensions != null) {
                return false;
            }
```

```
    } else if (!vendorExtensions.equals(other.vendorExtensions)) {
      return false;
    }
    if (version == null) {
      if (other.version != null) {
        return false;
      }
    } else if (!version.equals(other.version)) {
      return false;
    }
    return true;
  }
}
```

Found in path(s):
* /swagger-models-1-5-0-sources-jar/io/swagger/models/Info.java
No license file was found, but licenses were detected in source scan.

```
package io.swagger.models;

public class License {
  private String name;
  private String url;

  public License name(String name) {
    setName(name);
    return this;
  }

  public License url(String url) {
    setUrl(url);
    return this;
  }

  public String getName() {
    return name;
  }

  public void setName(String name) {
    this.name = name;
  }

  public String getUrl() {
    return url;
  }

  public void setUrl(String url) {
    this.url = url;
```

```
  }

  @Override
  public int hashCode() {
     final int prime = 31;
     int result = 1;
     result = prime * result + ((name == null) ? 0 : name.hashCode());
     result = prime * result + ((url == null) ? 0 : url.hashCode());
     return result;
  }

  @Override
  public boolean equals(Object obj) {
     if (this == obj) {
        return true;
     }
     if
(obj == null) {
        return false;
     }
     if (getClass() != obj.getClass()) {
        return false;
     }
     License other = (License) obj;
     if (name == null) {
        if (other.name != null) {
           return false;
        }
     } else if (!name.equals(other.name)) {
        return false;
     }
     if (url == null) {
        if (other.url != null) {
           return false;
        }
     } else if (!url.equals(other.url)) {
        return false;
     }
     return true;
  }
}
```

Found in path(s):
* /swagger-models-1-5-0-sources-jar/io/swagger/models/License.java

1.152 apache-log4j 1.2.15

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1.153 httpmime 4.3.6

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jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java
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*

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/SwitchTransformer.java
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 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/OnePredicate.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/UnmodifiableBoundedCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/BooleanComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TransformedSet.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableSortedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/FixedSizeMap.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/LazyList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/UnmodifiableBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/MultiKey.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/CircularFifoBuffer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/BidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/PredicatedMap.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/AbstractSortedBagDecorator.java

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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/Flat3Map.java
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*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/UnmodifiableSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/UnmodifiableSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bidimap/UnmodifiableSortedBidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/UnmodifiableOrderedMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/IterableMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/TypedSortedBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/SynchronizedSortedSet.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/AbstractOrderedMapIteratorDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/TransformedCollection.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/EnumerationUtils.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/AbstractSortedSetDecorator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/set/TypedSortedSet.java
* /commons-collections-3-2-sources-2-
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Unmodifiable.java
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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/UnmodifiableBuffer.java
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jar/org/apache/commons/collections/bidimap/AbstractSortedBidiMapDecorator.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/package.html
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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/overview.html
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/package.html
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/UniquePredicate.java
*
 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FactoryTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TruePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/PrototypeFactory.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NotNullPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/buffer/PriorityBuffer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FalsePredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/iterators/EntrySetMapIterator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/WhileClosure.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedMap.java
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 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InstantiateFactory.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FastHashMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TransformerClosure.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Closure.java

* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionClosure.java
*
/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/OrderedMapIterator.java
* /commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/comparators/ComparableComparator.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/TransformedPredicate.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/NullComparator.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/InvokerTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/LRUMap.java
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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ListUtils.java
* /commons-collections-3-2-sources-2-
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/Transformer.java
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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/ReferenceMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ConstantTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NullIsFalsePredicate.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ForClosure.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ConstantFactory.java
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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/PriorityQueue.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/comparators/ReverseComparator.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/collection/CompositeCollection.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/CloneTransformer.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NotPredicate.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/ExceptionFactory.java

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/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/NOPTransformer.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/CollectionUtils.java
*
 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/MapUtils.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/TreeBidiMap.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/AbstractLinkedList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/FastArrayList.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/SetUniqueList.java
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jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java
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 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/CaseInsensitiveMap.java
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* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bag/HashBag.java
* /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/CursorableLinkedList.java
*
 /commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/StaticBucketMap.java
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Any executables containing that work also fall under Section 6,
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a) Accompany
the work with the complete corresponding
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1.156 hibernate-validator 5.0.0.Final

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1.157 ojdbc 6

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1.158 ehcache-core 2.6.5

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*/
/**
   * Returns a list of all element keys in the cache, whether or not they are expired.
   * <p/>
   * The returned keys are unique and can almost be considered a set. See {@link net.sf.ehcache.store.CacheKeySet
CacheKeySet} for
   * more details.
   * <p/>
   * The List returned is not live. It is a copy.
    * <p/>
   * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
   * for each 1000 entries.
   *
   * @return a list of {@link Object} keys
   * @throws IllegalStateException if the cache is not {@link Status#STATUS_ALIVE}
   * @see net.sf.ehcache.store.CacheKeySet
   */
```

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Found in path(s):
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/InvalidConfigurationException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/PreferTCCLObjectInputStream.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/WriteBehindManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/NotificationScope.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/TerracottaCacheEventReplication.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledRateCounter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/NullLiveCacheStatisticsData.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/WriteBehind.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/BaseEmitterBean.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/AlwaysMatch.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/ccs/EhcacheReadOnlyCache.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/event/NonstopCacheEventListener.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/EhcacheXAException.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/ReadWriteEhcacheEntityRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/LiveCacheStatisticsWrapper.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Aggregators.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/FactoryConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/CircularLossyQueue.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/TerracottaConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/ResultsImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/AtomikosSelector.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/store/NonstopTimeoutBehaviorStoreResolver.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/BitronixSelector.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/ClusterOperationCallable.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/LessThan.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/model/XMLGeneratorVisitor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/EhcacheJtaTransactionManagerLookup.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/CacheReplicator.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheCollectionRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Status.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractBalancedAccessEvictor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/ComprehensiveCacheSampler.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/NullMBeanRegistrationProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/PropertyUtil.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/PersistenceConfigurationElement.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/ratestatistics/UnlockedRateStatistic.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopExecutorService.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Aggregator.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/attribute/JavaBeanAttributeExtractor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RMICacheManagerPeerListener.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/ReflectionSizeOf.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/nonstop/NonstopAwareCollectionRegionAccessStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/OperationConverter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/ComparableValue.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/MemoryUnit.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/cluster/CacheCluster.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ResourceClassLoader.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/TerracottaCacheCluster.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/DiskStorePathManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Criteria.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/CacheManagerExecutorServiceFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/BalancedAccessOnHeapPoolEvictor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopSync.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/SingleOperation.java
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* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/Searchable.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/NonstopActiveDelegateHolder.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/statistics/sampled/CacheStatisticsSampler.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/Store.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopCacheLockProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/AggregateIterator.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/SampledCacheManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/CacheKeySet.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/ods/AATreeSet.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/extension/CacheExtension.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/ElementSubstituteFilter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/SerializationHelper.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/provider/MBeanRegistrationProviderFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/NamedThreadFactory.java
*
 /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/strategy/NonStrictReadWriteEhcacheCollectionRegionAccessStrategy.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/BeanHandler.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/NonStopCacheKeySet.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/And.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/generator/ConfigurationUtil.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/QueryStats.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/processor/XARequest.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/OptimisticLockFailureException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EhcacheStatsImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/SlewClock.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/manager/selector/WeblogicSelector.java
*
/ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/CacheConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLock.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/AtomicLongSequence.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/nonstop/NonstopAccessStrategyFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/TaskNotSubmittedTimeoutException.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/Pool.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/util/OverrideCheck.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryOnlyStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/InCollection.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/xa/EhcacheXAResource.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/RemoteCacheException.java
*
/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/ElementIdHelper.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/impl/DynamicSearchChecker.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/SetAsList.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/ManagedCacheManagerPeerProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/Not.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/disk/HashEntry.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryLimitedCacheLoader.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/PoolAccessor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/config/FactoryConfiguration.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/ManualRMICacheManagerPeerProvider.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/SingletonEhCacheProvider.java
*
/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernate.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheCollectionRegion.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/TimeUtil.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/AbstractEhcacheRegionFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/DiskBackedMemoryStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/EhcacheHibernateMBean.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Statistics.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheEntityRegion.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/LruPolicy.java
* /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/hibernate/management/impl/EhcacheHibernateMBeanRegistration.java

* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/CacheRegionUtils.java
*
 /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/util/CountingThreadFactory.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/SoftLockID.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/compound/NullReadWriteCopyStrategy.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/CacheWriterManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writethrough/WriteThroughManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/regions/EhcacheDataRegion.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/store/LocalReadsOnTimeoutStore.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/local/LocalRecoveryManager.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/impl/HibernateStatsImpl.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractPoolAccessor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/expression/ILike.java
*
 /ehcache-core-2-6-5-sources-1-
jar/net/sf/ehcache/config/generator/model/elements/CopyStrategyConfigurationElement.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/VmUtils.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/ObjectGraphWalker.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/LargeSet.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/RotatingSnapshotFile.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/SizeOfEngine.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/LockedPoolAccessor.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/sizeof/filter/SizeOfFilter.java
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/attribute/DynamicAttributesExtractor.java
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*/

Found in path(s):
* /ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/lang/VicariousThreadLocal.java

1.159 json4s-ext 3.2.5

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Found in path(s):
* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/JodaTimeSerializers.scala
* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/EnumSerializer.scala

1.160 json4s-jackson 3.2.5

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1.161 jackson-module-scala 2.1.5

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```
import AssemblyKeys._
import PgpKeys._
import ReleaseKeys._
import sbtrelease._
import ReleaseStateTransformations._

// Basic facts
name := "jackson-module-scala"

organization := "com.fasterxml.jackson.module"

crossScalaVersions := Seq("2.9.1", "2.9.2", "2.10.0")

libraryDependencies <++= (version) { (v) => Seq(
  // These are "provided" so that sbt-assembly doesn't include them (we'll fix the pom later)
  "com.fasterxml.jackson.core" % "jackson-core" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-annotations" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-databind" % v % "provided"
```

```
) }

libraryDependencies ++= Seq(
  // saying this is intransitive prevents the deps from being included in the jar
  "com.fasterxml.jackson.module" %% "scalabeans" % "0.4-SNAPSHOT" intransitive(),
  // but now we need to add scalabeans deps explicitly (also as "provided")
  "com.thoughtworks.paranamer"
 % "paranamer" % "2.3" % "provided",
  "com.google.guava" % "guava" % "13.0.1" % "provided",
  // test dependencies
  "org.scalatest" %% "scalatest" % "2.0.M5" % "test" cross CrossVersion.binaryMapped {
     case "2.10" => "2.10.0"
     case x => x
  },
  "junit" % "junit" % "4.11" % "test",
  "com.fasterxml.jackson.datatype" % "jackson-datatype-joda" % "2.1.2" % "test"
)

// Another scalabeans dependency, for 2.10 only
libraryDependencies <++= (scalaBinaryVersion, scalaVersion) { (sbv,sv) => sbv match {
 // again, "provided" so that it is not included in the jar
 case "2.10" => Seq("org.scala-lang" % "scala-reflect" % sv % "provided")
 case _ => Seq()
} }

// Change the classifier of the main jar
artifact in (Compile, packageBin) ~= { (art: Artifact) =>
 art.copy(`classifier` = Some("base"))
}

// Disable publishing the main jar
publishArtifact in (Compile, packageBin) := false

// setup sbt-assembly settings
assemblySettings

// don't assembly the scala
 dependency
assembleArtifact in packageScala := false

// don't add "assembly" to the jar name
jarName in assembly <<= (name, version, scalaBinaryVersion) { (name, version, sbv) =>
 name + "_" + sbv + "-" + version + ".jar"
}

// place the assembly in the versioned path
outputPath in assembly <<= (target in assembly, jarName in assembly, scalaBinaryVersion) { (t,s,v) =>
  t / ("scala-" + v) / s
```

```
}

// don't have a classifier on the assembly
artifact in (Compile, assembly) ~= { (art: Artifact) =>
 art.copy(`classifier` = None)
}

// add the assembly as an artifact
addArtifact(artifact in (Compile, assembly), assembly)

// add the assembly signature as an artifact
packagedArtifacts <<= (packagedArtifacts, pgpSigner, skip in pgpSigner, streams) map { (artifacts,r,skipZ,s) =>
 if (!skipZ) {
  artifacts flatMap {
    // This works because the assembly has already been declared with no classifer
    case (art @ Artifact(_,"jar","jar",None,_,_,_), file) =>
      Seq(art
                        -> file,
        art.copy(extension = art.extension + ".asc") -> r.sign(file, new File(file.getAbsolutePath + ".asc"), s))
    case (art, file) => Seq(art -> file)
  }
 } else artifacts
}

// pom re-writing:
//   * remove the scalabeans dependency, as it's included
//   * remove the 'provided' annotation on others, as they're not
pomPostProcess := {
  import xml.transform._
  new RuleTransformer(new RewriteRule {
      override def transform(node: xml.Node) = node match {
        case n if ((n \ "artifactId").text.startsWith("scalabeans")) => xml.NodeSeq.Empty
        case n @ <scope>{_*}</scope> if n.text == "provided" => xml.NodeSeq.Empty
        case _ => node
      }
  })
}

// publishing
publishMavenStyle := true

publishTo <<= version { v =>
 val nexus = "https://oss.sonatype.org/"
 if (v.trim.endsWith("SNAPSHOT"))
  Some("snapshots" at nexus + "content/repositories/snapshots")
 else
  Some("releases" at nexus +
```

```
 "service/local/staging/deploy/maven2")
}

publishArtifact in Test := false

pomIncludeRepository := { _ => false }

pomExtra := {
 <url>http://wiki.fasterxml.com/JacksonModuleScala</url>
 <licenses>
  <license>
   <name>The Apache Software License, Version 2.0</name>
   <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
   <distribution>repo</distribution>
  </license>
 </licenses>
 <scm>
  <connection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</connection>
  <developerConnection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</developerConnection>
  <url>http://github.com/FasterXML/jackson-module-scala</url>
 </scm>
 <developers>
  <developer>
   <id>tatu</id>
   <name>Tatu Saloranta</name>
   <email>tatu@fasterxml.com</email>
  </developer>
  <developer>
   <id>christopher</id>
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 </developers>
 <contributors>
   <contributor>
   <name>Nathaniel Bauernfeind</name>
  </contributor>
  <contributor>
   <name>Anton Panasenko</name>
  </contributor>
 </contributors>
}

// credentials
credentials += Credentials(Path.userHome / ".ivy2" / ".credentials")

// release
releaseSettings
```

```
// bump bugfix on release
nextVersion := { ver => Version(ver).map(_.bumpBugfix.asSnapshot.string).getOrElse(versionFormatError) }

// use maven style tag name
tagName <<= (name, version in ThisBuild) map { (n,v) => n + "-" + v }

// don't publish on release, it doesn't work with cross version publishing
// TODO: see about defining multiple release processes, to do prepare/perform
// split processes similar to the Maven release plugin
releaseProcess := Seq(
 // TODO remove when scalabeans isn't a custom build
 // checkSnapshotDependencies,
 inquireVersions,
 runTest,
 setReleaseVersion,
 commitReleaseVersion,
 tagRelease,
 setNextVersion,
 commitNextVersion
)
```

Found in path(s):
* /jackson-module-scala-2-1-5-zip/jackson-module-scala-jackson-module-scala-2.1.5/build.sbt

1.162 json4s-native 3.2.5

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*/
```

Found in path(s):

* /json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/Serialization.scala
* /json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/JsonParser.scala

1.163 json4s-ast 3.2.5

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*/
```

Found in path(s):
* /json4s-ast-2-10-3-2-5-sources-1-jar/org/json4s/Diff.scala
* /json4s-ast-2-10-3-2-5-sources-1-jar/org/json4s/Merge.scala

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*/
```

Found in path(s):
* /json4s-ast-2-10-3-2-5-sources-1-jar/org/json4s/JsonAST.scala

* /json4s-ast-2-10-3-2-5-sources-1-jar/org/json4s/JsonDSL.scala

1.164 swagger-core 1.3.5

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```

Found in path(s):

* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/JsonSerializer.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/filter/SpecFilter.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/AuthorizationModels.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ReaderUtil.scala
*
 /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ModelUtil.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/TypeUtil.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/JsonUtil.scala
* /swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/SwaggerModels.scala

1.165 json4s-core 3.2.5

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Found in path(s):
* /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Formats.scala
* /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/package.scala
* /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Xml.scala
* /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Extraction.scala

1.166 jetty-server 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/MailSenderAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/jest/HttpClientConfigBuilderCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/HikariDriverConfigurationFailureAnalyzer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnWebApplication.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/SimpleCacheConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/hateoas/HypermediaAutoConfiguration.java
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```
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```

Found in path(s):

* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/rest/SpringBootRepositoryRestConfigurer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jooq/JooqExceptionTranslator.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/JpaBaseConfiguration.java
*
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/ldap/LdapRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/EmbeddedServletContainerAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jooq/JooqAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/JCachePropertiesCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/admin/SpringApplicationAdminJmxAutoConfiguration.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadataLoader.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/authserver/AuthorizationServerProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationImportListener.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/couchbase/CouchbaseAutoConfiguration.java
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jar/org/springframework/boot/autoconfigure/context/PropertyPlaceholderAutoConfiguration.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/OnClassCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/authserver/OAuth2AuthorizationServerConfiguration.j
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/NarayanaJtaConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/ldap/LdapAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/CacheProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoRestTemplateFactory.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ldap/package-
info.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywayProperties.java

* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mustache/MustacheCompilerFactoryBean.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/ResourceServerProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/OnEnabledResourceChainCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReportAutoConfigurationImportListener.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/OAuth2ClientProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadata.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/AllNestedConditions.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/MessageSourceAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/JwtAccessTokenConverterRestTemplateCustomizer.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizers.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/JpaProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ImportAutoConfiguration.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoTokenServices.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/HazelcastJCacheCustomizationConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/SpringBootCondition.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/WebMvcProperties.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/WebMvcValidator.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/webservices/WebServicesProperties.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/SecurityPrerequisite.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/JobExecutionExitCodeGenerator.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnNotWebApplication.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/jpa/JpaRepositoriesAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/JobExecutionEvent.java
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```

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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CouchbaseCacheConfiguration.java
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/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/WebMvcAutoConfiguration.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/OnBeanCondition.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/OnPropertyCondition.java
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* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ServerProperties.java
*
/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraDataAutoConfiguration.java
* /spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheType.java

1.169 spring-boot 1.5.12.RELEASE

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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/NestedConfigurationProperty.java
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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletComponentRegisteringPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/ParentContextApplicationContextInitializer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/ColorConverter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosProperties.java

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletContextInitializerBeans.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/SpringBootServletInitializer.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/config/ConfigFileApplicationListener.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/undertow/UndertowEmbeddedServletContainer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/yaml/SpringProfileDocumentMatcher.java
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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/SpringApplicationBuilder.java
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jar/org/springframework/boot/diagnostics/analyzer/BeanCurrentlyInCreationFailureAnalyzer.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/EventPublishingRunListener.java
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jar/org/springframework/boot/web/support/ServletContextApplicationContextInitializer.java
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jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedErrorHandler.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/admin/SpringApplicationAdminMXBean.java
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jar/org/springframework/boot/context/embedded/tomcat/SkipPatternJarScanner.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/info/GitProperties.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/MessageInterpolatorFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/annotation/DeterminableImports.java

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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggerConfigurationComparator.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/validation/package-info.java
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jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedWebappClassLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/annotation/package-info.java
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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/AbstractLoggingSystem.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PatternPropertyNamePatternsMatcher.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/LogbackConfigurator.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/package-info.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonSimpleJsonParser.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/package-info.java

* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/BitronixXAConnectionFactoryWrapper.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/package-info.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/BitronixDependentBeanFactoryPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertyNamePatternsMatcher.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/liquibase/SpringPackageScanClassResolver.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/SpringApplicationEvent.java
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 /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonJsonParser.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/lang/package-info.java
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* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationFailedEvent.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationRunner.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/XADataSourceWrapper.java
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jar/org/springframework/boot/builder/ParentContextCloserApplicationListener.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingInitializationContext.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiColor.java
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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/PropertySourceLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootBanner.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/bind/RelaxedBindingNotWritablePropertyException.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/package-info.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonParser.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/CommandLineRunner.java
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* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiBackground.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/hibernate/package-info.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/OriginCapablePropertyValue.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/cloud/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosDataSourceBean.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/DeferredLog.java
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/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/DeprecatedConfigurationProperty.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationArguments.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/bitronix/package-info.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/ApplicationReadyEvent.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/properties/ConfigurationBeanFactoryMetaData.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationTemp.java
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*
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* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/tomcat/TomcatConnectorCustomizer.java
* /spring-boot-1-5-12-release-sources-
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/java/SimpleFormatter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogLevel.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/package-info.java
* /spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/context/embedded/EmbeddedServletContainerException.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jackson/JsonObjectDeserializer.java
*
/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedServletContainer.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/liquibase/LiquibaseServiceLocatorApplicationListener.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/system/ApplicationPidFileWriter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedNames.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/RelaxedConversionService.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/UndertowEmbeddedServletContainerFactory.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jdbc/DatabaseDriver.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertiesConfigurationFactory.java
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/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatResources.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiOutput.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletComponentScanRegistrar.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/support/ErrorPageFilter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessor.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/PropertySourcesLoader.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/BasicJsonParser.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/MultipartConfigFactory.java
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* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/ApplicationContextHeaderFilter.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/AnsiOutputApplicationListener.java
* /spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/AbstractEmbeddedServletContainerFactory.java
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1.170 antlr-runtime 4.6

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* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/IterativeParseTreeWalker.java
*
 /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/RuleTransition.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ParserATNSimulator.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/RangeTransition.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/DecisionInfo.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/BasicState.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/RuntimeMetaData.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerModeAction.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/ANTLRErrorStrategy.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ATNType.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/BufferedTokenStream.java
*
 /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/CommonTokenStream.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/Recognizer.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardElement.java

* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/ANTLRFileStream.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathLexerErrorListener.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/TerminalNode.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/LexerInterpreter.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/IntStream.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java
*
/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/IntegerStack.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/BaseErrorListener.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ATNConfig.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/Predicate.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/dfa/DFAState.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathWildcardAnywhereElement.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/RuleNode.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/MultiMap.java
*
/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerActionType.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ATNDeserializer.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/SyntaxTree.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/Utils.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/dfa/DFASerializer.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/TokenStream.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/ErrorNodeImpl.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/LogManager.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/ProxyErrorListener.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/BailErrorStrategy.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleAnywhereElement.java
*
/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/WritableToken.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/ATN.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/TokenFactory.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/RuleStopState.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/xpath/XPathRuleElement.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/CharStream.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/InputMismatchException.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/Token.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java
*

/antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/IntervalSet.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/PrecedencePredicateTransition.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/ANTLRErrorListener.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/Vocabulary.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/TokenStreamRewriter.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/misc/IntSet.java
* /antlr4-runtime-4-6-sources-jar/org/antlr/v4/runtime/atn/LexerATNConfig.java

1.171 istack-commons-runtime 3.0.7

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1.172 stax-api 4.2

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1.173 yang-common 0.8.4-Beryllium-SR4

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1.174 mibble-commercial-mibs 2.9.3

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```
RFC1213-MIB DEFINITIONS ::= BEGIN

IMPORTS
      mgmt, NetworkAddress, IpAddress, Counter, Gauge,
           TimeTicks
         FROM RFC1155-SMI
      OBJECT-TYPE
           FROM RFC-1212;

--  This MIB module uses the extended OBJECT-TYPE macro as
--  defined in [14];


--  MIB-II (same prefix as MIB-I)

mib-2      OBJECT IDENTIFIER ::= { mgmt 1 }

-- textual conventions

DisplayString ::=
  OCTET STRING
-- This data type is used to model textual information taken
-- from the NVT ASCII character set.  By convention, objects
-- with this syntax are declared as having

--
--      SIZE (0..255)

PhysAddress ::=
  OCTET STRING
-- This data type is used to model media addresses.  For many
-- types of media, this will be in a binary representation.
-- For example, an ethernet address would be represented as
-- a string of 6 octets.


-- groups in MIB-II

system       OBJECT IDENTIFIER ::= { mib-2 1 }

interfaces
  OBJECT IDENTIFIER ::= { mib-2 2 }

at           OBJECT IDENTIFIER ::= { mib-2 3 }
```

```
ip          OBJECT IDENTIFIER ::= { mib-2 4 }

icmp        OBJECT IDENTIFIER ::= { mib-2 5 }

tcp         OBJECT IDENTIFIER ::= { mib-2 6 }

udp         OBJECT IDENTIFIER ::= { mib-2 7 }

egp         OBJECT IDENTIFIER ::= { mib-2 8 }

-- historical (some say hysterical)
-- cmot      OBJECT IDENTIFIER ::= { mib-2 9 }

transmission OBJECT IDENTIFIER ::= { mib-2 10 }

snmp        OBJECT IDENTIFIER ::= { mib-2 11 }


-- the System group

-- Implementation of the System group is mandatory for all
-- systems.  If an agent is not configured to have a value
-- for any of these variables, a string of length 0 is
-- returned.

sysDescr OBJECT-TYPE
  SYNTAX  DisplayString (SIZE (0..255))
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A textual description of the entity.  This value
        should include the full name and version
        identification of the
 system's hardware type,
        software operating-system, and networking
        software.  It is mandatory that this only contain
        printable ASCII characters."
  ::= { system 1 }

sysObjectID OBJECT-TYPE
  SYNTAX  OBJECT IDENTIFIER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the
        entity.  This value is allocated within the SMI
        enterprises subtree (1.3.6.1.4.1) and provides an
```

```
        easy and unambiguous means for determining `what
        kind of box' is being managed.  For example, if
        vendor `Flintstones, Inc.' was assigned the
        subtree 1.3.6.1.4.1.4242, it could assign the
        identifier 1.3.6.1.4.1.4242.1.1 to its `Fred
        Router'."
    ::= { system 2 }

sysUpTime OBJECT-TYPE
    SYNTAX  TimeTicks
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The time (in hundredths of a second) since the
        network management portion of the system was last
        re-initialized."
    ::= { system 3 }

sysContact OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The textual identification of the contact person
        for this managed node, together with information
        on how to contact this person."
    ::= { system 4 }

sysName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "An administratively-assigned name for this
        managed node.  By convention, this is the node's
        fully-qualified domain name."
    ::= { system 5 }

sysLocation OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The physical location of this node (e.g.,
        `telephone closet,
   3rd floor')."
    ::= { system 6 }
```

```
sysServices OBJECT-TYPE
  SYNTAX  INTEGER (0..127)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A value which indicates the set of services that
        this entity primarily offers.

        The value is a sum.  This sum initially takes the
        value zero, Then, for each layer, L, in the range
        1 through 7, that this node performs transactions
        for, 2 raised to (L - 1) is added to the sum.  For
        example, a node which performs primarily routing
        functions would have a value of 4 (2^(3-1)).  In
        contrast, a node which is a host offering
        application services would have a value of 72
        (2^(4-1) + 2^(7-1)).  Note that in the context of
        the Internet suite of protocols, values should be
        calculated accordingly:

            layer  functionality
                1  physical (e.g., repeaters)

             2  datalink/subnetwork (e.g., bridges)
                3  internet (e.g., IP gateways)
                4  end-to-end  (e.g., IP hosts)
                7  applications (e.g., mail relays)

        For systems including OSI protocols, layers 5 and
        6 may also be counted."
  ::= { system 7 }

-- the Interfaces group

-- Implementation of the Interfaces group is mandatory for
-- all systems.

ifNumber OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of network interfaces (regardless of
        their current state) present on this system."
  ::= { interfaces 1 }



-- the Interfaces table
```

```
-- The Interfaces table contains information on the entity's
-- interfaces.  Each interface is thought of as being
-- attached to a `subnetwork'.  Note that this term should
-- not be confused with `subnet' which refers to an
-- addressing partitioning scheme used in the Internet suite
-- of
 protocols.

ifTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IfEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A list of interface entries.  The number of
        entries is given by the value of ifNumber."
  ::= { interfaces 2 }

ifEntry OBJECT-TYPE
  SYNTAX  IfEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "An interface entry containing objects at the
        subnetwork layer and below for a particular
        interface."
  INDEX   { ifIndex }
  ::= { ifTable 1 }

IfEntry ::=
  SEQUENCE {
     ifIndex
        INTEGER,
     ifDescr
        DisplayString,
     ifType
        INTEGER,
     ifMtu
        INTEGER,
     ifSpeed
        Gauge,
     ifPhysAddress
        PhysAddress,
     ifAdminStatus
        INTEGER,
     ifOperStatus
        INTEGER,
     ifLastChange
```

```
        TimeTicks,
    ifInOctets
        Counter,
    ifInUcastPkts
        Counter,
    ifInNUcastPkts
        Counter,
    ifInDiscards
        Counter,
    ifInErrors
        Counter,
    ifInUnknownProtos
        Counter,
    ifOutOctets
        Counter,
    ifOutUcastPkts
        Counter,
    ifOutNUcastPkts
        Counter,
    ifOutDiscards
        Counter,
    ifOutErrors
        Counter,
    ifOutQLen
        Gauge,
    ifSpecific
        OBJECT IDENTIFIER
  }

ifIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A unique value for each interface.  Its value
        ranges between 1 and the value of ifNumber.  The
        value for each interface must remain constant at
        least from one re-initialization of the entity's
        network management system to the next re-
        initialization."
  ::= { ifEntry 1 }

ifDescr OBJECT-TYPE
  SYNTAX  DisplayString
 (SIZE (0..255))
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
```

```
        "A textual string containing information about the
        interface.  This string should include the name of
        the manufacturer, the product name and the version
        of the hardware interface."
    ::= { ifEntry 2 }

ifType OBJECT-TYPE
    SYNTAX  INTEGER {
                other(1),         -- none of the following
                regular1822(2),
                hdh1822(3),
                ddn-x25(4),
                rfc877-x25(5),
                ethernet-csmacd(6),
                iso88023-csmacd(7),
                iso88024-tokenBus(8),
                iso88025-tokenRing(9),
                iso88026-man(10),
                starLan(11),
                proteon-10Mbit(12),
                proteon-80Mbit(13),
                hyperchannel(14),
                fddi(15),
                lapb(16),
                sdlc(17),
                ds1(18),          -- T-1

            e1(19),           -- european equiv. of T-1
                basicISDN(20),
                primaryISDN(21),   -- proprietary serial
                propPointToPointSerial(22),
                ppp(23),
                softwareLoopback(24),
                eon(25),           -- CLNP over IP [11]
                ethernet-3Mbit(26),
                nsip(27),          -- XNS over IP
                slip(28),          -- generic SLIP
                ultra(29),         -- ULTRA technologies
                ds3(30),           -- T-3
                sip(31),           -- SMDS
                frame-relay(32)
            }
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The type of interface, distinguished according to
        the physical/link protocol(s) immediately `below'
        the network layer in the protocol stack."
```

```
  ::= { ifEntry 3 }

ifMtu OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION

      "The size of the largest datagram which can be
       sent/received on the interface, specified in
       octets.  For interfaces that are used for
       transmitting network datagrams, this is the size
       of the largest network datagram that can be sent
       on the interface."
  ::= { ifEntry 4 }

ifSpeed OBJECT-TYPE
  SYNTAX  Gauge
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
       "An estimate of the interface's current bandwidth
       in bits per second.  For interfaces which do not
       vary in bandwidth or for those where no accurate
       estimation can be made, this object should contain
       the nominal bandwidth."
  ::= { ifEntry 5 }

ifPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
       "The interface's address at the protocol layer
       immediately `below' the network layer in the
       protocol stack.  For
 interfaces which do not have
       such an address (e.g., a serial line), this object
       should contain an octet string of zero length."
  ::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE
  SYNTAX  INTEGER {
            up(1),       -- ready to pass packets
            down(2),
            testing(3)   -- in some test mode
          }
  ACCESS  read-write
```

```
  STATUS  mandatory
  DESCRIPTION
          "The desired state of the interface.  The
          testing(3) state indicates that no operational
          packets can be passed."
  ::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE
  SYNTAX  INTEGER {
              up(1),       -- ready to pass packets
              down(2),
              testing(3)   -- in some test mode
          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The current operational state of the interface.
          The testing(3) state indicates that no operational
          packets can
 be passed."
  ::= { ifEntry 8 }

ifLastChange OBJECT-TYPE
  SYNTAX  TimeTicks
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The value of sysUpTime at the time the interface
          entered its current operational state.  If the
          current state was entered prior to the last re-
          initialization of the local network management
          subsystem, then this object contains a zero
          value."
  ::= { ifEntry 9 }

ifInOctets OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The total number of octets received on the
          interface, including framing characters."
  ::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The number of subnetwork-unicast packets
        delivered to a higher-layer protocol."
  ::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE
  SYNTAX  Counter
   ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of non-unicast (i.e., subnetwork-
        broadcast or subnetwork-multicast) packets
        delivered to a higher-layer protocol."
  ::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of inbound packets which were chosen
        to be discarded even though no errors had been
        detected to prevent their being deliverable to a
        higher-layer protocol.  One possible reason for
        discarding such a packet could be to free up
        buffer space."
  ::= { ifEntry 13 }

ifInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of inbound packets that contained
        errors preventing them from being deliverable to a
        higher-layer protocol."
  ::= { ifEntry 14 }

ifInUnknownProtos
 OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of packets received via the interface
        which were discarded because of an unknown or
        unsupported protocol."
  ::= { ifEntry 15 }
```

```
ifOutOctets OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of octets transmitted out of the
        interface, including framing characters."
  ::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of packets that higher-level
        protocols requested be transmitted to a
        subnetwork-unicast address, including those that
        were discarded or not sent."
  ::= { ifEntry 17 }

ifOutNUcastPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number
 of packets that higher-level
        protocols requested be transmitted to a non-
        unicast (i.e., a subnetwork-broadcast or
        subnetwork-multicast) address, including those
        that were discarded or not sent."
  ::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of outbound packets which were chosen
        to be discarded even though no errors had been
        detected to prevent their being transmitted.  One
        possible reason for discarding such a packet could
        be to free up buffer space."
  ::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE
  SYNTAX  Counter
```

```
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "The number of outbound packets that could not be
            transmitted because of errors."
    ::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE
    SYNTAX  Gauge
    ACCESS  read-only
    STATUS  mandatory
     DESCRIPTION
            "The length of the output packet queue (in
            packets)."
    ::= { ifEntry 21 }

ifSpecific OBJECT-TYPE
    SYNTAX  OBJECT IDENTIFIER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "A reference to MIB definitions specific to the
            particular media being used to realize the
            interface.  For example, if the interface is
            realized by an ethernet, then the value of this
            object refers to a document defining objects
            specific to ethernet.  If this information is not
            present, its value should be set to the OBJECT
            IDENTIFIER { 0 0 }, which is a syntatically valid
            object identifier, and any conformant
            implementation of ASN.1 and BER must be able to
            generate and recognize this value."
    ::= { ifEntry 22 }


-- the Address Translation group

-- Implementation of the Address Translation group is
-- mandatory for all
 systems.  Note however that this group
-- is deprecated by MIB-II. That is, it is being included

-- solely for compatibility with MIB-I nodes, and will most
-- likely be excluded from MIB-III nodes.  From MIB-II and
-- onwards, each network protocol group contains its own
-- address translation tables.

-- The Address Translation group contains one table which is
```

```
-- the union across all interfaces of the translation tables
-- for converting a NetworkAddress (e.g., an IP address) into
-- a subnetwork-specific address.  For lack of a better term,
-- this document refers to such a subnetwork-specific address
-- as a `physical' address.

-- Examples of such translation tables are: for broadcast
-- media where ARP is in use, the translation table is
-- equivalent to the ARP cache; or, on an X.25 network where
-- non-algorithmic translation to X.121 addresses is
-- required, the translation table contains the
-- NetworkAddress to X.121 address equivalences.

atTable OBJECT-TYPE
  SYNTAX
 SEQUENCE OF AtEntry
  ACCESS  not-accessible
  STATUS  deprecated
  DESCRIPTION
        "The Address Translation tables contain the
        NetworkAddress to `physical' address equivalences.
        Some interfaces do not use translation tables for
        determining address equivalences (e.g., DDN-X.25
        has an algorithmic method); if all interfaces are
        of this type, then the Address Translation table
        is empty, i.e., has zero entries."
  ::= { at 1 }

atEntry OBJECT-TYPE
  SYNTAX  AtEntry
  ACCESS  not-accessible
  STATUS  deprecated
  DESCRIPTION
        "Each entry contains one NetworkAddress to
        `physical' address equivalence."
  INDEX   { atIfIndex,
            atNetAddress }
  ::= { atTable 1 }

AtEntry ::=
  SEQUENCE {
     atIfIndex
        INTEGER,
     atPhysAddress
        PhysAddress,
     atNetAddress
        NetworkAddress
  }
```

```
atIfIndex OBJECT-TYPE
  SYNTAX
 INTEGER
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The interface on which this entry's equivalence
        is effective.  The interface identified by a
        particular value of this index is the same
        interface as identified by the same value of
        ifIndex."
  ::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The media-dependent `physical' address.

        Setting this object to a null string (one of zero
        length) has the effect of invaliding the
        corresponding entry in the atTable object.  That
        is, it effectively dissasociates the interface
        identified with said entry from the mapping
        identified with said entry.  It is an
        implementation-specific matter as to whether the
        agent removes an invalidated entry from the table.
        Accordingly,
 management stations must be prepared
        to receive tabular information from agents that
        corresponds to entries not currently in use.
        Proper interpretation of such entries requires
        examination of the relevant atPhysAddress object."
  ::= { atEntry 2 }

atNetAddress OBJECT-TYPE
  SYNTAX  NetworkAddress
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The NetworkAddress (e.g., the IP address)
        corresponding to the media-dependent `physical'
        address."
  ::= { atEntry 3 }
```

```
-- the IP group

-- Implementation of the IP group is mandatory for all
-- systems.

ipForwarding OBJECT-TYPE
  SYNTAX  INTEGER {
             forwarding(1),    -- acting as a gateway
             not-forwarding(2) -- NOT acting as a gateway
          }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The indication of whether this entity is acting
          as an IP gateway in respect
 to the forwarding of
          datagrams received by, but not addressed to, this
          entity.  IP gateways forward datagrams.  IP hosts
          do not (except those source-routed via the host).

          Note that for some managed nodes, this object may
          take on only a subset of the values possible.
          Accordingly, it is appropriate for an agent to
          return a `badValue' response if a management
          station attempts to change this object to an
          inappropriate value."
  ::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The default value inserted into the Time-To-Live
          field of the IP header of datagrams originated at
          this entity, whenever a TTL value is not supplied
          by the transport layer protocol."
  ::= { ip 2 }

ipInReceives OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
   DESCRIPTION
          "The total number of input datagrams received from
          interfaces, including those received in error."
  ::= { ip 3 }
```

```
ipInHdrErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of input datagrams discarded due to
        errors in their IP headers, including bad
        checksums, version number mismatch, other format
        errors, time-to-live exceeded, errors discovered
        in processing their IP options, etc."
  ::= { ip 4 }

ipInAddrErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of input datagrams discarded because
        the IP address in their IP header's destination
        field was not a valid address to be received at
        this entity.  This count includes invalid
        addresses (e.g., 0.0.0.0) and addresses of
        unsupported Classes (e.g.,
 Class E).  For entities
        which are not IP Gateways and therefore do not
        forward datagrams, this counter includes datagrams
        discarded because the destination address was not
        a local address."
  ::= { ip 5 }

ipForwDatagrams OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of input datagrams for which this
        entity was not their final IP destination, as a
        result of which an attempt was made to find a
        route to forward them to that final destination.
        In entities which do not act as IP Gateways, this
        counter will include only those packets which were
        Source-Routed via this entity, and the Source-
        Route option processing was successful."
  ::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
```

```
  STATUS  mandatory
  DESCRIPTION
        "The number of locally-addressed
 datagrams
        received successfully but discarded because of an
        unknown or unsupported protocol."
  ::= { ip 7 }

ipInDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of input IP datagrams for which no
        problems were encountered to prevent their
        continued processing, but which were discarded
        (e.g., for lack of buffer space).  Note that this
        counter does not include any datagrams discarded
        while awaiting re-assembly."
  ::= { ip 8 }

ipInDelivers OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of input datagrams successfully
        delivered to IP user-protocols (including ICMP)."
  ::= { ip 9 }

ipOutRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of IP datagrams
 which local IP
        user-protocols (including ICMP) supplied to IP in
        requests for transmission.  Note that this counter
        does not include any datagrams counted in
        ipForwDatagrams."
  ::= { ip 10 }

ipOutDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
```

"The number of output IP datagrams for which no problem was encountered to prevent their transmission to their destination, but which were discarded (e.g., for lack of buffer space). Note that this counter would include datagrams counted in ipForwDatagrams if any such packets met this (discretionary) discard criterion."

::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of IP datagrams discarded because no route could be found to transmit them
to their
destination. Note that this counter includes any packets counted in ipForwDatagrams which meet this `no-route' criterion. Note that this includes any datagarms which a host cannot route because all of its default gateways are down."

::= { ip 12 }

ipReasmTimeout OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The maximum number of seconds which received fragments are held while they are awaiting reassembly at this entity."

::= { ip 13 }

ipReasmReqds OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of IP fragments received which needed to be reassembled at this entity."

::= { ip 14 }

ipReasmOKs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION

```
        "The number of IP datagrams successfully re-

       assembled."
  ::= { ip 15 }

ipReasmFails OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of failures detected by the IP re-
        assembly algorithm (for whatever reason: timed
        out, errors, etc).  Note that this is not
        necessarily a count of discarded IP fragments
        since some algorithms (notably the algorithm in
        RFC 815) can lose track of the number of fragments
        by combining them as they are received."
  ::= { ip 16 }

ipFragOKs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams that have been
        successfully fragmented at this entity."
  ::= { ip 17 }

ipFragFails OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams that have been
        discarded because they needed to
 be fragmented at
        this entity but could not be, e.g., because their
        Don't Fragment flag was set."
  ::= { ip 18 }

ipFragCreates OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagram fragments that have
        been generated as a result of fragmentation at
        this entity."
```

```
  ::= { ip 19 }

-- the IP address table

-- The IP address table contains this entity's IP addressing
-- information.

ipAddrTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpAddrEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The table of addressing information relevant to
        this entity's IP addresses."
  ::= { ip 20 }

ipAddrEntry OBJECT-TYPE
  SYNTAX  IpAddrEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The addressing information for one of this
        entity's IP addresses."
  INDEX   { ipAdEntAddr }
  ::=
 { ipAddrTable 1 }

IpAddrEntry ::=
  SEQUENCE {
     ipAdEntAddr
        IpAddress,
     ipAdEntIfIndex
        INTEGER,
     ipAdEntNetMask
        IpAddress,
     ipAdEntBcastAddr
        INTEGER,
     ipAdEntReasmMaxSize
        INTEGER (0..65535)
  }

ipAdEntAddr OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The IP address to which this entry's addressing
        information pertains."
```

::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The index value which uniquely identifies the interface to which this entry is applicable. The interface identified by a particular value of this index is the same interface as identified by the same value of ifIndex."
::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE
SYNTAX IpAddress
ACCESS
read-only
STATUS mandatory
DESCRIPTION
"The subnet mask associated with the IP address of this entry. The value of the mask is an IP address with all the network bits set to 1 and all the hosts bits set to 0."
::= { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The value of the least-significant bit in the IP broadcast address used for sending datagrams on the (logical) interface associated with the IP address of this entry. For example, when the Internet standard all-ones broadcast address is used, the value will be 1. This value applies to both the subnet and network broadcasts addresses used by the entity on this (logical) interface."
::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
SYNTAX INTEGER (0..65535)
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The size of the largest IP datagram which this entity can re-assemble from incoming IP fragmented

```
        datagrams received on this interface."
  ::= { ipAddrEntry 5 }

-- the IP routing table

-- The IP routing table contains an entry for each route
-- presently known to this entity.

ipRouteTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpRouteEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "This entity's IP Routing table."
  ::= { ip 21 }

ipRouteEntry OBJECT-TYPE
  SYNTAX  IpRouteEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A route to a particular destination."
  INDEX   { ipRouteDest }
  ::= { ipRouteTable 1 }

IpRouteEntry ::=
  SEQUENCE {
    ipRouteDest
      IpAddress,
    ipRouteIfIndex
      INTEGER,
    ipRouteMetric1
      INTEGER,
    ipRouteMetric2
      INTEGER,
    ipRouteMetric3
       INTEGER,
    ipRouteMetric4
      INTEGER,
    ipRouteNextHop
      IpAddress,
    ipRouteType
      INTEGER,
    ipRouteProto
      INTEGER,
    ipRouteAge
      INTEGER,
    ipRouteMask
```

```
        IpAddress,
    ipRouteMetric5
        INTEGER,
    ipRouteInfo
        OBJECT IDENTIFIER
  }

ipRouteDest OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The destination IP address of this route.  An
        entry with a value of 0.0.0.0 is considered a
        default route.  Multiple routes to a single
        destination can appear in the table, but access to
        such multiple entries is dependent on the table-
        access mechanisms defined by the network
        management protocol in use."
  ::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory

  DESCRIPTION
        "The index value which uniquely identifies the
        local interface through which the next hop of this
        route should be reached.  The interface identified
        by a particular value of this index is the same
        interface as identified by the same value of
        ifIndex."
  ::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The primary routing metric for this route.  The
        semantics of this metric are determined by the
        routing-protocol specified in the route's
        ipRouteProto value.  If this metric is not used,
        its value should be set to -1."
  ::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE
```

```
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "An alternate routing metric for this route.  The
          semantics of this metric are determined
 by the
          routing-protocol specified in the route's
          ipRouteProto value.  If this metric is not used,
          its value should be set to -1."
  ::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "An alternate routing metric for this route.  The
          semantics of this metric are determined by the
          routing-protocol specified in the route's
          ipRouteProto value.  If this metric is not used,
          its value should be set to -1."
  ::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "An alternate routing metric for this route.  The
          semantics of this metric are determined by the
          routing-protocol specified in the route's
          ipRouteProto value.  If this metric is not used,
          its value should be set to -1."
   ::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The IP address of the next hop of this route.
          (In the case of a route bound to an interface
          which is realized via a broadcast media, the value
          of this field is the agent's IP address on that
          interface.)"
  ::= { ipRouteEntry 7 }
```

```
ipRouteType OBJECT-TYPE
  SYNTAX  INTEGER {
          other(1),       -- none of the following

          invalid(2),     -- an invalidated route

                          -- route to directly
          direct(3),      -- connected (sub-)network

                          -- route to a non-local
          indirect(4)     -- host/network/sub-network
        }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The type of route.  Note that the values
        direct(3) and indirect(4) refer
 to the notion of
        direct and indirect routing in the IP
        architecture.

        Setting this object to the value invalid(2) has
        the effect of invalidating the corresponding entry
        in the ipRouteTable object.  That is, it
        effectively dissasociates the destination
        identified with said entry from the route
        identified with said entry.  It is an
        implementation-specific matter as to whether the
        agent removes an invalidated entry from the table.
        Accordingly, management stations must be prepared
        to receive tabular information from agents that
        corresponds to entries not currently in use.
        Proper interpretation of such entries requires
        examination of the relevant ipRouteType object."
  ::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE
  SYNTAX  INTEGER {
          other(1),       -- none of the following


           -- non-protocol information,
                          -- e.g., manually configured
          local(2),       -- entries

                          -- set via a network
          netmgmt(3),     -- management protocol
```

```
                -- obtained via ICMP,
            icmp(4),        -- e.g., Redirect

                -- the remaining values are
                -- all gateway routing
                -- protocols
            egp(5),
            ggp(6),
            hello(7),
            rip(8),
            is-is(9),
            es-is(10),
            ciscoIgrp(11),
            bbnSpfIgp(12),
            ospf(13),
            bgp(14)
          }
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
          "The routing mechanism via which this route was
          learned.  Inclusion of values for gateway routing
          protocols
   is not intended to imply that hosts
          should support those protocols."
    ::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
          "The number of seconds since this route was last
          updated or otherwise determined to be correct.
          Note that no semantics of `too old' can be implied
          except through knowledge of the routing protocol
          by which the route was learned."
    ::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE
    SYNTAX  IpAddress
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
          "Indicate the mask to be logical-ANDed with the
          destination address before being compared to the
          value in the ipRouteDest field.  For those systems
          that do not support arbitrary subnet masks, an
```

agent constructs the value of the ipRouteMask by
determining whether the value of the correspondent
ipRouteDest field belong to a class-A, B, or C
network, and then using one of:

mask network
255.0.0.0 class-A
255.255.0.0 class-B
255.255.255.0 class-C

If the value of the ipRouteDest is 0.0.0.0 (a
default route), then the mask value is also
0.0.0.0. It should be noted that all IP routing
subsystems implicitly use this mechanism."
::= { ipRouteEntry 11 }

ipRouteMetric5 OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION
"An alternate routing metric for this route. The
semantics of this metric are determined by the
routing-protocol specified in the route's
ipRouteProto value. If this metric is not used,
its value should be set to -1."
::= { ipRouteEntry 12 }

ipRouteInfo OBJECT-TYPE
SYNTAX OBJECT IDENTIFIER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"A reference to MIB definitions specific to the
particular routing protocol which is responsible
for this route, as determined by the value
specified in the route's ipRouteProto value. If
this information is not present, its value should
be set to the OBJECT IDENTIFIER { 0 0 }, which is
a syntatically valid object identifier, and any
conformant implementation of ASN.1 and BER must be
able to generate and recognize this value."
::= { ipRouteEntry 13 }

-- the IP Address Translation table

-- The IP address translation table contain the IpAddress to
-- `physical' address equivalences. Some interfaces do not

```
-- use translation tables for determining address
-- equivalences (e.g., DDN-X.25 has an algorithmic method);
-- if all interfaces are of this type, then the Address
-- Translation table is empty, i.e., has zero
 entries.

ipNetToMediaTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpNetToMediaEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The IP Address Translation table used for mapping
        from IP addresses to physical addresses."
  ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE
  SYNTAX  IpNetToMediaEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Each entry contains one IpAddress to `physical'
        address equivalence."
  INDEX   { ipNetToMediaIfIndex,
            ipNetToMediaNetAddress }
  ::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::=
  SEQUENCE {
    ipNetToMediaIfIndex
       INTEGER,
    ipNetToMediaPhysAddress
       PhysAddress,
    ipNetToMediaNetAddress
       IpAddress,
    ipNetToMediaType
       INTEGER
  }

ipNetToMediaIfIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The interface
 on which this entry's equivalence
        is effective.  The interface identified by a
        particular value of this index is the same
        interface as identified by the same value of
```

```
        ifIndex."
  ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The media-dependent `physical' address."
  ::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The IpAddress corresponding to the media-
        dependent `physical' address."
  ::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE
  SYNTAX  INTEGER {
            other(1),       -- none of the following
            invalid(2),     -- an invalidated mapping
            dynamic(3),
            static(4)
          }
  ACCESS  read-write
  STATUS  mandatory
   DESCRIPTION
        "The type of mapping.

        Setting this object to the value invalid(2) has
        the effect of invalidating the corresponding entry
        in the ipNetToMediaTable.  That is, it effectively
        dissasociates the interface identified with said
        entry from the mapping identified with said entry.
        It is an implementation-specific matter as to
        whether the agent removes an invalidated entry
        from the table.  Accordingly, management stations
        must be prepared to receive tabular information
        from agents that corresponds to entries not
        currently in use.  Proper interpretation of such
        entries requires examination of the relevant
        ipNetToMediaType object."
  ::= { ipNetToMediaEntry 4 }
```

```
-- additional IP objects

ipRoutingDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number
 of routing entries which were chosen
        to be discarded even though they are valid.  One
        possible reason for discarding such an entry could
        be to free-up buffer space for other routing
        entries."
  ::= { ip 23 }


-- the ICMP group

-- Implementation of the ICMP group is mandatory for all
-- systems.

icmpInMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of ICMP messages which the
        entity received.  Note that this counter includes
        all those counted by icmpInErrors."
  ::= { icmp 1 }

icmpInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP messages which the entity
        received but determined as having ICMP-specific
        errors (bad ICMP checksums, bad length, etc.)."
  ::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE
  SYNTAX  Counter

  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Destination Unreachable
```

```
        messages received."
  ::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Time Exceeded messages
        received."
  ::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Parameter Problem messages
        received."
  ::= { icmp 5 }

icmpInSrcQuenchs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Source Quench messages
        received."
  ::= { icmp 6 }

icmpInRedirects OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Redirect messages received."
  ::= { icmp 7 }

icmpInEchos OBJECT-TYPE
   SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo (request) messages
        received."
  ::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE
```

```
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo Reply messages received."
  ::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp (request) messages
        received."
  ::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp Reply messages
        received."
  ::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Request messages
        received."
  ::= {
 icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Reply messages
        received."
  ::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The total number of ICMP messages which this
        entity attempted to send.  Note that this counter
        includes all those counted by icmpOutErrors."
  ::= { icmp 14 }

icmpOutErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP messages which this entity did
        not send due to problems discovered within ICMP
        such as a lack of buffers.  This value should not
        include errors discovered outside the ICMP layer
        such as the inability of IP to route the resultant
        datagram.  In some implementations there may
 be no
        types of error which contribute to this counter's
        value."
  ::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Destination Unreachable
        messages sent."
  ::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Time Exceeded messages sent."
  ::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Parameter Problem messages
        sent."
  ::= { icmp 18 }
```

```
icmpOutSrcQuenchs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Source Quench messages sent."
  ::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS
 mandatory
  DESCRIPTION
        "The number of ICMP Redirect messages sent.  For a
        host, this object will always be zero, since hosts
        do not send redirects."
  ::= { icmp 20 }

icmpOutEchos OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo (request) messages sent."
  ::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo Reply messages sent."
  ::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp (request) messages
        sent."
  ::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The number of ICMP Timestamp Reply messages
        sent."
  ::= {
 icmp 24 }

icmpOutAddrMasks OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Request messages
        sent."
  ::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Reply messages
        sent."
  ::= { icmp 26 }



-- the TCP group

-- Implementation of the TCP group is mandatory for all
-- systems that implement the TCP.

-- Note that instances of object types that represent
-- information about a particular TCP connection are
-- transient; they persist only as long as the connection
-- in question.

tcpRtoAlgorithm OBJECT-TYPE
  SYNTAX  INTEGER {
            other(1),    -- none of the following

            constant(2), -- a constant rto
            rsre(3),     -- MIL-STD-1778, Appendix B
            vanj(4)      -- Van Jacobson's algorithm [10]

          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The algorithm used to determine the timeout value
```

```
        used for retransmitting unacknowledged octets."
    ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The minimum value permitted by a TCP
        implementation for the retransmission timeout,
        measured in milliseconds.  More refined semantics
        for objects of this type depend upon the algorithm
        used to determine the retransmission timeout.  In
        particular, when the timeout algorithm is rsre(3),
        an object of this type has the semantics of the
        LBOUND quantity described in RFC 793."
    ::= { tcp 2 }


tcpRtoMax OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The maximum value permitted by a TCP
        implementation for the retransmission
   timeout,
        measured in milliseconds.  More refined semantics
        for objects of this type depend upon the algorithm
        used to determine the retransmission timeout.  In
        particular, when the timeout algorithm is rsre(3),
        an object of this type has the semantics of the
        UBOUND quantity described in RFC 793."
    ::= { tcp 3 }

tcpMaxConn OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The limit on the total number of TCP connections
        the entity can support.  In entities where the
        maximum number of connections is dynamic, this
        object should contain the value -1."
    ::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE
    SYNTAX  Counter
```

```
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of times TCP connections have made a
        direct transition to the SYN-SENT state from the
        CLOSED state."
   ::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of times TCP connections have made a
        direct transition to the SYN-RCVD state from the
        LISTEN state."
  ::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of times TCP connections have made a
        direct transition to the CLOSED state from either
        the SYN-SENT state or the SYN-RCVD state, plus the
        number of times TCP connections have made a direct
        transition to the LISTEN state from the SYN-RCVD
        state."
  ::= { tcp 7 }

tcpEstabResets OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of times TCP connections have made a
        direct transition to the CLOSED state from either
        the
 ESTABLISHED state or the CLOSE-WAIT state."
  ::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE
  SYNTAX  Gauge
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of TCP connections for which the
```

```
        current state is either ESTABLISHED or CLOSE-
        WAIT."
    ::= { tcp 9 }

tcpInSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of segments received, including
        those received in error.  This count includes
        segments received on currently established
        connections."
    ::= { tcp 10 }

tcpOutSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of segments sent, including
        those on current connections but excluding those
        containing only retransmitted octets."
    ::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
     STATUS  mandatory
    DESCRIPTION
        "The total number of segments retransmitted - that
        is, the number of TCP segments transmitted
        containing one or more previously transmitted
        octets."
    ::= { tcp 12 }


-- the TCP Connection table

-- The TCP connection table contains information about this
-- entity's existing TCP connections.

tcpConnTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF TcpConnEntry
    ACCESS  not-accessible
    STATUS  mandatory
    DESCRIPTION
        "A table containing TCP connection-specific
```

```
        information."
  ::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
  SYNTAX  TcpConnEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about a particular current TCP
        connection.  An object of this type is transient,
        in that it ceases to exist when (or soon after)
        the connection makes the transition to the CLOSED
        state."
  INDEX
  { tcpConnLocalAddress,
          tcpConnLocalPort,
          tcpConnRemAddress,
          tcpConnRemPort }
  ::= { tcpConnTable 1 }

TcpConnEntry ::=
  SEQUENCE {
     tcpConnState
        INTEGER,
     tcpConnLocalAddress
        IpAddress,
     tcpConnLocalPort
        INTEGER (0..65535),
     tcpConnRemAddress
        IpAddress,
     tcpConnRemPort
        INTEGER (0..65535)
  }

tcpConnState OBJECT-TYPE
  SYNTAX  INTEGER {
             closed(1),
             listen(2),
             synSent(3),
             synReceived(4),
             established(5),
             finWait1(6),
             finWait2(7),
             closeWait(8),
             lastAck(9),
             closing(10),
             timeWait(11),
             deleteTCB(12)
```

```
        }
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The state of this TCP connection.

        The only value which may
 be set by a management
        station is deleteTCB(12).  Accordingly, it is
        appropriate for an agent to return a `badValue'
        response if a management station attempts to set
        this object to any other value.

        If a management station sets this object to the
        value deleteTCB(12), then this has the effect of
        deleting the TCB (as defined in RFC 793) of the
        corresponding connection on the managed node,
        resulting in immediate termination of the
        connection.

        As an implementation-specific option, a RST
        segment may be sent from the managed node to the
        other TCP endpoint (note however that RST segments
        are not sent reliably)."
    ::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE
    SYNTAX  IpAddress
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The local IP address for this TCP connection.  In

    the case of a connection in the listen state which
        is willing to accept connections for any IP
        interface associated with the node, the value
        0.0.0.0 is used."
    ::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
    SYNTAX  INTEGER (0..65535)
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The local port number for this TCP connection."
    ::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
```

```
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The remote IP address for this TCP connection."
  ::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The remote port number for this TCP connection."
  ::= { tcpConnEntry 5 }


-- additional TCP objects

tcpInErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number
 of segments received in error
        (e.g., bad TCP checksums)."
  ::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of TCP segments sent containing the
        RST flag."
  ::= { tcp 15 }


-- the UDP group

-- Implementation of the UDP group is mandatory for all
-- systems which implement the UDP.

udpInDatagrams OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
```

```
        "The total number of UDP datagrams delivered to
        UDP users."
    ::= { udp 1 }

udpNoPorts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of received UDP datagrams for
        which there was no application at the destination
        port."
    ::= { udp 2 }

udpInErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION

  "The number of received UDP datagrams that could
        not be delivered for reasons other than the lack
        of an application at the destination port."
    ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of UDP datagrams sent from this
        entity."
    ::= { udp 4 }


-- the UDP Listener table

-- The UDP listener table contains information about this
-- entity's UDP end-points on which a local application is
-- currently accepting datagrams.

udpTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF UdpEntry
    ACCESS  not-accessible
    STATUS  mandatory
    DESCRIPTION
        "A table containing UDP listener information."
    ::= { udp 5 }
```

```
udpEntry OBJECT-TYPE
  SYNTAX  UdpEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about a particular current UDP
        listener."
  INDEX   { udpLocalAddress, udpLocalPort
 }
  ::= { udpTable 1 }

UdpEntry ::=
  SEQUENCE {
     udpLocalAddress
        IpAddress,
     udpLocalPort
        INTEGER (0..65535)
  }

udpLocalAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The local IP address for this UDP listener.  In
        the case of a UDP listener which is willing to
        accept datagrams for any IP interface associated
        with the node, the value 0.0.0.0 is used."
  ::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The local port number for this UDP listener."
  ::= { udpEntry 2 }


-- the EGP group

-- Implementation of the EGP group is mandatory for all
-- systems which implement the EGP.

egpInMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
```

```
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received without
         error."
  ::= { egp 1 }

egpInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received that proved
        to be in error."
  ::= { egp 2 }

egpOutMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of locally generated EGP
        messages."
  ::= { egp 3 }

egpOutErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of locally generated EGP messages not
        sent due to resource limitations within an EGP
        entity."
  ::= { egp 4 }


-- the EGP Neighbor table

-- The EGP neighbor table contains information about this
-- entity's EGP neighbors.

egpNeighTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF EgpNeighEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The EGP neighbor table."
   ::= { egp 5 }
```

```
egpNeighEntry OBJECT-TYPE
  SYNTAX  EgpNeighEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about this entity's relationship with
        a particular EGP neighbor."
  INDEX   { egpNeighAddr }
  ::= { egpNeighTable 1 }

EgpNeighEntry ::=
  SEQUENCE {
     egpNeighState
        INTEGER,
     egpNeighAddr
        IpAddress,
     egpNeighAs
        INTEGER,
     egpNeighInMsgs
        Counter,
     egpNeighInErrs
        Counter,
     egpNeighOutMsgs
        Counter,
     egpNeighOutErrs
        Counter,
     egpNeighInErrMsgs
        Counter,
     egpNeighOutErrMsgs
        Counter,
     egpNeighStateUps
        Counter,
     egpNeighStateDowns
        Counter,
     egpNeighIntervalHello
        INTEGER,
     egpNeighIntervalPoll
        INTEGER,
     egpNeighMode
        INTEGER,
     egpNeighEventTrigger

       INTEGER
  }

egpNeighState OBJECT-TYPE
  SYNTAX  INTEGER {
            idle(1),
```

```
            acquisition(2),
            down(3),
            up(4),
            cease(5)
          }
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
          "The EGP state of the local system with respect to
          this entry's EGP neighbor.  Each EGP state is
          represented by a value that is one greater than
          the numerical value associated with said state in
          RFC 904."
    ::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE
    SYNTAX  IpAddress
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
          "The IP address of this entry's EGP neighbor."
    ::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
          "The autonomous system of this EGP peer.  Zero
          should be specified if the autonomous system
          number
 of the neighbor is not yet known."
    ::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
          "The number of EGP messages received without error
          from this EGP peer."
    ::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
```

"The number of EGP messages received from this EGP peer that proved to be in error (e.g., bad EGP checksum)."
::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of locally generated EGP messages to this EGP peer."
::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of locally generated EGP messages not sent to this
EGP peer due to resource limitations within an EGP entity."
::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of EGP-defined error messages received from this EGP peer."
::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of EGP-defined error messages sent to this EGP peer."
::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION

```
        "The number of EGP state transitions to the UP
        state with this EGP peer."
  ::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP state transitions from the UP
        state to any
 other state with this EGP peer."
  ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The interval between EGP Hello command
        retransmissions (in hundredths of a second).  This
        represents the t1 timer as defined in RFC 904."
  ::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The interval between EGP poll command
        retransmissions (in hundredths of a second).  This
        represents the t3 timer as defined in RFC 904."
  ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
  SYNTAX  INTEGER { active(1), passive(2) }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The polling mode of this EGP entity, either
        passive or active."
  ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
  SYNTAX  INTEGER
 { start(1), stop(2) }
  ACCESS  read-write
  STATUS  mandatory
```

```
  DESCRIPTION
        "A control variable used to trigger operator-
        initiated Start and Stop events.  When read, this
        variable always returns the most recent value that
        egpNeighEventTrigger was set to.  If it has not
        been set since the last initialization of the
        network management subsystem on the node, it
        returns a value of `stop'.

        When set, this variable causes a Start or Stop
        event on the specified neighbor, as specified on
        pages 8-10 of RFC 904.  Briefly, a Start event
        causes an Idle peer to begin neighbor acquisition
        and a non-Idle peer to reinitiate neighbor
        acquisition.  A stop event causes a non-Idle peer
        to return to the Idle state until a Start event
        occurs, either via egpNeighEventTrigger or
        otherwise."
  ::= { egpNeighEntry
 15 }


-- additional EGP objects

egpAs OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The autonomous system number of this EGP entity."
  ::= { egp 6 }

-- the Transmission group

-- Based on the transmission media underlying each interface
-- on a system, the corresponding portion of the Transmission
-- group is mandatory for that system.

-- When Internet-standard definitions for managing
-- transmission media are defined, the transmission group is
-- used to provide a prefix for the names of those objects.

-- Typically, such definitions reside in the experimental
-- portion of the MIB until they are "proven", then as a
-- part of the Internet standardization process, the
-- definitions are accordingly elevated and a new object
-- identifier, under the transmission group is defined. By
-- convention, the name assigned is:
```

```
--
--     type OBJECT IDENTIFIER    ::= { transmission number }
--
-- where "type" is the symbolic
 value used for the media in
-- the ifType column of the ifTable object, and "number" is
-- the actual integer value corresponding to the symbol.


-- the SNMP group

-- Implementation of the SNMP group is mandatory for all
-- systems which support an SNMP protocol entity.  Some of
-- the objects defined below will be zero-valued in those
-- SNMP implementations that are optimized to support only
-- those functions specific to either a management agent or
-- a management station.  In particular, it should be
-- observed that the objects below refer to an SNMP entity,
-- and there may be several SNMP entities residing on a
-- managed node (e.g., if the node is hosting acting as
-- a management station).

snmpInPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of Messages delivered to the
        SNMP entity from the transport service."
  ::= { snmp 1 }

snmpOutPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS
 read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Messages which were
        passed from the SNMP protocol entity to the
        transport service."
  ::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Messages which were
```

```
        delivered to the SNMP protocol entity and were for
        an unsupported SNMP version."
    ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of SNMP Messages delivered to
        the SNMP protocol entity which used a SNMP
        community name not known to said entity."
    ::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of SNMP Messages delivered to

      the SNMP protocol entity which represented an SNMP
        operation which was not allowed by the SNMP
        community named in the Message."
    ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of ASN.1 or BER errors
        encountered by the SNMP protocol entity when
        decoding received SNMP Messages."
    ::= { snmp 6 }

-- { snmp 7 } is not used

snmpInTooBigs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `tooBig'."
    ::= { snmp 8 }
```

```
snmpInNoSuchNames OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the
 SNMP protocol entity and for
        which the value of the error-status field is
        `noSuchName'."
  ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `badValue'."
  ::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number valid SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `readOnly'.  It should be noted that it is a
        protocol error to generate an SNMP PDU which
        contains the value `readOnly' in the error-status
        field, as such this object is provided as a means
        of detecting
 incorrect implementations of the
        SNMP."
  ::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
```

```
        which the value of the error-status field is
        `genErr'."
  ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of MIB objects which have been
        retrieved successfully by the SNMP protocol entity
        as the result of receiving valid SNMP Get-Request
        and Get-Next PDUs."
  ::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of MIB objects which have been
        altered successfully by the SNMP protocol entity
        as the result
 of receiving valid SNMP Set-Request
        PDUs."
  ::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have
        been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE
```

```
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
   DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 18 }

snmpInTraps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
        which the value of the error-status field is
        `tooBig.'"
  ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
```

```
            which the value of the error-status is
            `noSuchName'."
    ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "The total number of SNMP PDUs which were
            generated by the SNMP protocol entity and for
            which the value of the error-status field is
            `badValue'."
    ::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "The total number of SNMP PDUs which were
            generated by the SNMP protocol entity and for
            which the value of the error-status field is
            `genErr'."
    ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "The total number of SNMP Get-Request PDUs which
            have been generated by the SNMP protocol entity."
     ::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "The total number of SNMP Get-Next PDUs which have
            been generated by the SNMP protocol entity."
    ::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
    SYNTAX  Counter
```

```
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 28 }

snmpOutTraps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been generated by the SNMP protocol entity."
   ::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE
  SYNTAX  INTEGER { enabled(1), disabled(2) }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "Indicates whether the SNMP agent process is
        permitted to generate authentication-failure
        traps.  The value of this object overrides any
        configuration information; as such, it provides a
        means whereby all authentication-failure traps may
        be disabled.

        Note that it is strongly recommended that this
        object be stored in non-volatile memory so that it
        remains constant between re-initializations of the
        network management system."
  ::= { snmp 30 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB
```

No license file was found, but licenses were detected in source scan.

```
IANAifType-MIB DEFINITIONS ::= BEGIN

 IMPORTS
    MODULE-IDENTITY, mib-2      FROM SNMPv2-SMI
    TEXTUAL-CONVENTION          FROM SNMPv2-TC;

 ianaifType MODULE-IDENTITY
    LAST-UPDATED "200709130000Z"  -- September 13, 2007
    ORGANIZATION "IANA"
    CONTACT-INFO "        Internet Assigned Numbers Authority

                  Postal: ICANN
                       4676 Admiralty Way, Suite 330
                       Marina del Rey, CA 90292

                  Tel:    +1 310 823 9358
                  E-Mail: iana&iana.org"

    DESCRIPTION  "This MIB module defines the IANAifType Textual
                  Convention, and thus the enumerated values of
                  the ifType object defined in MIB-II's ifTable."

    REVISION     "200709130000Z"  -- September 13, 2007
    DESCRIPTION  "Registration of new IANAifTypes 243 and 244."

    REVISION     "200705290000Z"
-- May 29, 2007
    DESCRIPTION  "Changed the description for IANAifType 228."

    REVISION     "200703080000Z"  -- March 08, 2007
    DESCRIPTION  "Registration of new IANAifType 242."

    REVISION     "200701230000Z"  -- January 23, 2007
    DESCRIPTION  "Registration of new IANAifTypes 239, 240, and 241."

    REVISION     "200610170000Z"  -- October 17, 2006
    DESCRIPTION  "Deprecated/Obsoleted IANAifType 230.  Registration of
                  IANAifType 238."

    REVISION     "200609250000Z"  -- September 25, 2006
    DESCRIPTION  "Changed the description for IANA ifType
                  184 and added new IANA ifType 237."

    REVISION     "200608170000Z"  -- August 17, 2006
    DESCRIPTION  "Changed the descriptions for IANAifTypes
                  20 and 21."
```

REVISION "200608110000Z" -- August 11, 2006
DESCRIPTION "Changed the descriptions for IANAifTypes
7, 11, 62,
69, and 117."

REVISION "200607250000Z" -- July 25, 2006
DESCRIPTION "Registration of new IANA ifType 236."

REVISION "200606140000Z" -- June 14, 2006
DESCRIPTION "Registration of new IANA ifType 235."

REVISION "200603310000Z" -- March 31, 2006
DESCRIPTION "Registration of new IANA ifType 234."

REVISION "200603300000Z" -- March 30, 2006
DESCRIPTION "Registration of new IANA ifType 233."

REVISION "200512220000Z" -- December 22, 2005
DESCRIPTION "Registration of new IANA ifTypes 231 and 232."

REVISION "200510100000Z" -- October 10, 2005
DESCRIPTION "Registration of new IANA ifType 230."

REVISION "200509090000Z" -- September 09, 2005
DESCRIPTION "Registration of new IANA ifType 229."

REVISION "200505270000Z" -- May 27, 2005
DESCRIPTION "Registration of new IANA ifType 228."

REVISION "200503030000Z"
-- March 3, 2005
DESCRIPTION "Added the IANAtunnelType TC and deprecated
IANAifType sixToFour (215) per RFC4087."

REVISION "200411220000Z" -- November 22, 2004
DESCRIPTION "Registration of new IANA ifType 227 per RFC4631."

REVISION "200406170000Z" -- June 17, 2004
DESCRIPTION "Registration of new IANA ifType 226."

REVISION "200405120000Z" -- May 12, 2004
DESCRIPTION "Added description for IANAifType 6, and
changed the descriptions for IANAifTypes
180, 181, and 182."

REVISION "200405070000Z" -- May 7, 2004
DESCRIPTION "Registration of new IANAifType 225."

REVISION "200308250000Z" -- Aug 25, 2003
DESCRIPTION "Deprecated IANAifTypes 7 and 11. Obsoleted
IANAifTypes 62, 69, and 117. ethernetCsmacd (6)
should be used instead of these values"

REVISION "200308180000Z"
-- Aug 18, 2003
DESCRIPTION "Registration of new IANAifType
224."

REVISION "200308070000Z" -- Aug 7, 2003
DESCRIPTION "Registration of new IANAifTypes
222 and 223."

REVISION "200303180000Z" -- Mar 18, 2003
DESCRIPTION "Registration of new IANAifType
221."

REVISION "200301130000Z" -- Jan 13, 2003
DESCRIPTION "Registration of new IANAifType
220."

REVISION "200210170000Z" -- Oct 17, 2002
DESCRIPTION "Registration of new IANAifType
219."

REVISION "200207160000Z" -- Jul 16, 2002
DESCRIPTION "Registration of new IANAifTypes
217 and 218."

REVISION "200207100000Z" -- Jul 10, 2002
DESCRIPTION "Registration of new IANAifTypes
215 and 216."

REVISION "200206190000Z" -- Jun 19, 2002
DESCRIPTION "Registration
of new IANAifType
214."

REVISION "200201040000Z" -- Jan 4, 2002
DESCRIPTION "Registration of new IANAifTypes
211, 212 and 213."

REVISION "200112200000Z" -- Dec 20, 2001
DESCRIPTION "Registration of new IANAifTypes
209 and 210."

REVISION "200111150000Z" -- Nov 15, 2001
DESCRIPTION "Registration of new IANAifTypes
207 and 208."

REVISION "200111060000Z" -- Nov 6, 2001
DESCRIPTION "Registration of new IANAifType
206."

REVISION "200111020000Z" -- Nov 2, 2001
DESCRIPTION "Registration of new IANAifType
205."

REVISION "200110160000Z" -- Oct 16, 2001
DESCRIPTION "Registration of new IANAifTypes
199, 200, 201, 202, 203, and 204."

REVISION "200109190000Z" -- Sept 19, 2001
DESCRIPTION "Registration
of new IANAifType
198."

REVISION "200105110000Z" -- May 11, 2001
DESCRIPTION "Registration of new IANAifType
197."

REVISION "200101120000Z" -- Jan 12, 2001
DESCRIPTION "Registration of new IANAifTypes
195 and 196."

REVISION "200012190000Z" -- Dec 19, 2000
DESCRIPTION "Registration of new IANAifTypes
193 and 194."

REVISION "200012070000Z" -- Dec 07, 2000
DESCRIPTION "Registration of new IANAifTypes
191 and 192."

REVISION "200012040000Z" -- Dec 04, 2000
DESCRIPTION "Registration of new IANAifType
190."

REVISION "200010170000Z" -- Oct 17, 2000
DESCRIPTION "Registration of new IANAifTypes

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                188 and 189."

    REVISION     "200010020000Z"  -- Oct 02, 2000
    DESCRIPTION  "Registration of new IANAifType
187."

    REVISION     "200009010000Z"  -- Sept 01, 2000
    DESCRIPTION  "Registration of new IANAifTypes
                184, 185, and 186."

    REVISION     "200008240000Z"  -- Aug 24, 2000
    DESCRIPTION  "Registration of new IANAifType 183."

    REVISION     "200008230000Z"  -- Aug 23, 2000
    DESCRIPTION  "Registration of new IANAifTypes
                174-182."

    REVISION     "200008220000Z"  -- Aug 22, 2000
    DESCRIPTION  "Registration of new IANAifTypes 170,
                171, 172 and 173."

    REVISION     "200004250000Z"  -- Apr 25, 2000
    DESCRIPTION  "Registration of new IANAifTypes 168 and 169."

    REVISION     "200003060000Z"  -- Mar 6, 2000
    DESCRIPTION  "Fixed a missing semi-colon in the IMPORT.
                Also cleaned up the REVISION log a bit.
                It is not complete, but from now on it will
                be maintained and kept up to date with
each
                change to this MIB module."

    REVISION     "199910081430Z"  -- Oct 08, 1999
    DESCRIPTION  "Include new name assignments up to cnr(85).
                This is the first version available via the WWW
                at: ftp://ftp.isi.edu/mib/ianaiftype.mib"

    REVISION     "199401310000Z"  -- Jan 31, 1994
    DESCRIPTION  "Initial version of this MIB as published in
                RFC 1573."

    ::= { mib-2 30 }


 IANAifType ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
          "This data type is used as the syntax of the ifType
```

```
        object in the (updated) definition of MIB-II's
        ifTable.

        The definition of this textual convention with the
        addition of newly assigned values is published
        periodically by the IANA, in either the Assigned
        Numbers RFC, or some derivative of it specific to
        Internet
Network Management number assignments.  (The
        latest arrangements can be obtained by contacting the
        IANA.)

        Requests for new values should be made to IANA via
        email (iana&iana.org).

        The relationship between the assignment of ifType
        values and of OIDs to particular media-specific MIBs
        is solely the purview of IANA and is subject to change
        without notice.  Quite often, a media-specific MIB's
        OID-subtree assignment within MIB-II's 'transmission'
        subtree will be the same as its ifType value.
        However, in some circumstances this will not be the
        case, and implementors must not pre-assume any
        specific relationship between ifType values and
        transmission subtree OIDs."
    SYNTAX  INTEGER {
            other(1),         -- none of the following
            regular1822(2),
             hdh1822(3),
            ddnX25(4),
            rfc877x25(5),
            ethernetCsmacd(6), -- for all ethernet-like interfaces,
                    -- regardless of speed, as per RFC3635
            iso88023Csmacd(7), -- Deprecated via RFC3635
                    -- ethernetCsmacd (6) should be used instead
            iso88024TokenBus(8),
            iso88025TokenRing(9),
            iso88026Man(10),
            starLan(11), -- Deprecated via RFC3635
                    -- ethernetCsmacd (6) should be used instead
            proteon10Mbit(12),
            proteon80Mbit(13),
            hyperchannel(14),
            fddi(15),
            lapb(16),
            sdlc(17),
            ds1(18),           -- DS1-MIB
            e1(19),            -- Obsolete see DS1-MIB
```

```
            basicISDN(20),
        -- no longer used
                                -- see also RFC2127
            primaryISDN(21),          -- no longer used
                                -- see also RFC2127
            propPointToPointSerial(22), -- proprietary serial
            ppp(23),
            softwareLoopback(24),
            eon(25),          -- CLNP over IP
            ethernet3Mbit(26),
            nsip(27),         -- XNS over IP
            slip(28),         -- generic SLIP
            ultra(29),        -- ULTRA technologies
            ds3(30),          -- DS3-MIB
            sip(31),          -- SMDS, coffee
            frameRelay(32),    -- DTE only.
            rs232(33),
            para(34),         -- parallel-port
            arcnet(35),       -- arcnet
            arcnetPlus(36),    -- arcnet plus
            atm(37),
          -- ATM cells
            miox25(38),
            sonet(39),        -- SONET or SDH
            x25ple(40),
            iso88022llc(41),
            localTalk(42),
            smdsDxi(43),
            frameRelayService(44),  -- FRNETSERV-MIB
            v35(45),
            hssi(46),
            hippi(47),
            modem(48),        -- Generic modem
            aal5(49),         -- AAL5 over ATM
            sonetPath(50),
            sonetVT(51),
            smdsIcip(52),      -- SMDS InterCarrier Interface
            propVirtual(53),   -- proprietary virtual/internal
            propMultiplexor(54),-- proprietary multiplexing
            ieee80212(55),     -- 100BaseVG
            fibreChannel(56),  -- Fibre Channel
            hippiInterface(57), -- HIPPI interfaces
            frameRelayInterconnect(58), --
    Obsolete use either
                        -- frameRelay(32) or
                        -- frameRelayService(44).
            aflane8023(59),    -- ATM Emulated LAN for 802.3
            aflane8025(60),    -- ATM Emulated LAN for 802.5
```

```
            cctEmul(61),        -- ATM Emulated circuit
            fastEther(62),      -- Obsoleted via RFC3635
                                -- ethernetCsmacd (6) should be used instead
            isdn(63),           -- ISDN and X.25
            v11(64),            -- CCITT V.11/X.21
            v36(65),            -- CCITT V.36
            g703at64k(66),      -- CCITT G703 at 64Kbps
            g703at2mb(67),      -- Obsolete see DS1-MIB
            qllc(68),           -- SNA QLLC
            fastEtherFX(69),    -- Obsoleted via RFC3635

           -- ethernetCsmacd (6) should be used instead
            channel(70),        -- channel
            ieee80211(71),      -- radio spread spectrum
            ibm370parChan(72),  -- IBM System 360/370 OEMI Channel
            escon(73),          -- IBM Enterprise Systems Connection
            dlsw(74),           -- Data Link Switching
            isdns(75),          -- ISDN S/T interface
            isdnu(76),          -- ISDN U interface
            lapd(77),           -- Link Access Protocol D
            ipSwitch(78),       -- IP Switching Objects
            rsrb(79),           -- Remote Source Route Bridging
            atmLogical(80),     -- ATM Logical Port
            ds0(81),            -- Digital Signal Level 0
            ds0Bundle(82),      -- group of ds0s on the same ds1
            bsc(83),            -- Bisynchronous Protocol

          async(84),            -- Asynchronous Protocol
            cnr(85),            -- Combat Net Radio
            iso88025Dtr(86),    -- ISO 802.5r DTR
            eplrs(87),          -- Ext Pos Loc Report Sys
            arap(88),           -- Appletalk Remote Access Protocol
            propCnls(89),       -- Proprietary Connectionless Protocol
            hostPad(90),        -- CCITT-ITU X.29 PAD Protocol
            termPad(91),        -- CCITT-ITU X.3 PAD Facility
            frameRelayMPI(92),  -- Multiproto Interconnect over FR
            x213(93),           -- CCITT-ITU X213
            adsl(94),           -- Asymmetric Digital Subscriber Loop
            radsl(95),          -- Rate-Adapt. Digital Subscriber Loop
            sdsl(96),           -- Symmetric Digital Subscriber Loop
            vdsl(97),           -- Very H-Speed Digital Subscrib. Loop
            iso88025CRFPInt(98),
-- ISO 802.5 CRFP
            myrinet(99),        -- Myricom Myrinet
            voiceEM(100),       -- voice recEive and transMit
            voiceFXO(101),      -- voice Foreign Exchange Office
            voiceFXS(102),      -- voice Foreign Exchange Station
            voiceEncap(103),    -- voice encapsulation
```

voiceOverIp(104), -- voice over IP encapsulation
atmDxi(105), -- ATM DXI
atmFuni(106), -- ATM FUNI
atmIma (107), -- ATM IMA
pppMultilinkBundle(108), -- PPP Multilink Bundle
ipOverCdlc (109), -- IBM ipOverCdlc
ipOverClaw (110), -- IBM Common Link Access to Workstn
stackToStack (111), -- IBM stackToStack
virtualIpAddress (112), -- IBM VIPA
mpc (113), -- IBM multi-protocol channel support

ipOverAtm (114), -- IBM ipOverAtm
iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring
tdlc (116), -- IBM twinaxial data link control
gigabitEthernet (117), -- Obsoleted via RFC3635
-- ethernetCsmacd (6) should be used instead
hdlc (118), -- HDLC
lapf (119), -- LAP F
v37 (120), -- V.37
x25mlp (121), -- Multi-Link Protocol
x25huntGroup (122), -- X25 Hunt Group
trasnpHdlc (123), -- Transp HDLC
interleave (124), -- Interleave channel
fast (125), -- Fast channel
ip (126), -- IP (for APPN HPR in IP networks)
docsCableMaclayer (127), -- CATV Mac Layer
docsCableDownstream (128), -- CATV Downstream interface
docsCableUpstream
(129), -- CATV Upstream interface
a12MppSwitch (130), -- Avalon Parallel Processor
tunnel (131), -- Encapsulation interface
coffee (132), -- coffee pot
ces (133), -- Circuit Emulation Service
atmSubInterface (134), -- ATM Sub Interface
l2vlan (135), -- Layer 2 Virtual LAN using 802.1Q
l3ipvlan (136), -- Layer 3 Virtual LAN using IP
l3ipxvlan (137), -- Layer 3 Virtual LAN using IPX
digitalPowerline (138), -- IP over Power Lines
mediaMailOverIp (139), -- Multimedia Mail over IP
dtm (140), -- Dynamic syncronous Transfer Mode
dcn (141), -- Data Communications Network
ipForward (142), -- IP Forwarding Interface
msdsl (143), -- Multi-rate Symmetric DSL

ieee1394 (144), -- IEEE1394 High Performance Serial Bus
if-gsn (145), -- HIPPI-6400
dvbRccMacLayer (146), -- DVB-RCC MAC Layer
dvbRccDownstream (147), -- DVB-RCC Downstream Channel

dvbRccUpstream (148), -- DVB-RCC Upstream Channel
atmVirtual (149), -- ATM Virtual Interface
mplsTunnel (150), -- MPLS Tunnel Virtual Interface
srp (151), -- Spatial Reuse Protocol
voiceOverAtm (152), -- Voice Over ATM
voiceOverFrameRelay (153), -- Voice Over Frame Relay
idsl (154), -- Digital Subscriber Loop over ISDN
compositeLink (155), -- Avici Composite Link Interface
ss7SigLink (156), -- SS7 Signaling Link
propWirelessP2P (157), -- Prop. P2P wireless interface
frForward (158), -- Frame Forward Interface
rfc1483 (159), -- Multiprotocol over ATM AAL5
usb (160), -- USB Interface
ieee8023adLag (161), -- IEEE 802.3ad Link Aggregate
bgppolicyaccounting (162), -- BGP Policy Accounting
frf16MfrBundle (163), -- FRF .16 Multilink Frame Relay
h323Gatekeeper (164), -- H323 Gatekeeper
h323Proxy (165), -- H323 Voice and Video Proxy
mpls (166), -- MPLS
mfSigLink (167), -- Multi-frequency signaling link
hdsl2 (168), -- High Bit-Rate DSL - 2nd generation
shdsl (169), -- Multirate HDSL2
ds1FDL (170), -- Facility Data Link 4Kbps on a DS1
pos (171), -- Packet over SONET/SDH Interface
dvbAsiIn (172), -- DVB-ASI Input
dvbAsiOut (173), -- DVB-ASI Output
plc (174), -- Power Line Communtications
nfas (175), -- Non Facility Associated Signaling
tr008 (176), -- TR008
gr303RDT (177), -- Remote Digital Terminal
gr303IDT (178), -- Integrated Digital Terminal
isup (179), -- ISUP
propDocsWirelessMaclayer (180), -- Cisco proprietary Maclayer
propDocsWirelessDownstream (181), -- Cisco proprietary Downstream
propDocsWirelessUpstream (182), -- Cisco proprietary Upstream
hiperlan2 (183), -- HIPERLAN Type 2 Radio Interface
propBWAp2Mp (184), -- PropBroadbandWirelessAccesspt2multipt
-- use of this iftype for IEEE 802.16 WMAN
-- interfaces as per IEEE Std 802.16f is
-- deprecated and ifType 237 should be used instead.
sonetOverheadChannel (185), -- SONET Overhead Channel
digitalWrapperOverheadChannel
(186), -- Digital Wrapper
aal2 (187), -- ATM adaptation layer 2
radioMAC (188), -- MAC layer over radio links
atmRadio (189), -- ATM over radio links
imt (190), -- Inter Machine Trunks
mvl (191), -- Multiple Virtual Lines DSL

reachDSL (192), -- Long Reach DSL
frDlciEndPt (193), -- Frame Relay DLCI End Point
atmVciEndPt (194), -- ATM VCI End Point
opticalChannel (195), -- Optical Channel
opticalTransport (196), -- Optical Transport
propAtm (197), -- Proprietary ATM
voiceOverCable (198), -- Voice Over Cable Interface
infiniband (199), -- Infiniband
teLink (200), -- TE Link
q2931 (201), -- Q.2931
virtualTg (202), -- Virtual Trunk Group

sipTg (203), -- SIP Trunk Group
sipSig (204), -- SIP Signaling
docsCableUpstreamChannel (205), -- CATV Upstream Channel
econet (206), -- Acorn Econet
pon155 (207), -- FSAN 155Mb Symetrical PON interface
pon622 (208), -- FSAN622Mb Symetrical PON interface
bridge (209), -- Transparent bridge interface
linegroup (210), -- Interface common to multiple lines
voiceEMFGD (211), -- voice E&M Feature Group D
voiceFGDEANA (212), -- voice FGD Exchange Access North American
voiceDID (213), -- voice Direct Inward Dialing
mpegTransport (214), -- MPEG transport interface
sixToFour (215), -- 6to4 interface (DEPRECATED)
gtp (216), -- GTP (GPRS Tunneling Protocol)
pdnEtherLoop1 (217), -- Paradyne EtherLoop 1
pdnEtherLoop2
(218), -- Paradyne EtherLoop 2
opticalChannelGroup (219), -- Optical Channel Group
homepna (220), -- HomePNA ITU-T G.989
gfp (221), -- Generic Framing Procedure (GFP)
ciscoISLvlan (222), -- Layer 2 Virtual LAN using Cisco ISL
actelisMetaLOOP (223), -- Acteleis proprietary MetaLOOP High Speed Link
fcipLink (224), -- FCIP Link
rpr (225), -- Resilient Packet Ring Interface Type
qam (226), -- RF Qam Interface
lmp (227), -- Link Management Protocol
cblVectaStar (228), -- Cambridge Broadband Networks Limited VectaStar
docsCableMCmtsDownstream (229), -- CATV Modular CMTS Downstream Interface
adsl2 (230), -- Asymmetric Digital Subscriber Loop Version 2
-- (DEPRECATED/OBSOLETED - please use adsl2plus 238 instead)

macSecControlledIF (231), -- MACSecControlled
macSecUncontrolledIF (232), -- MACSecUncontrolled
aviciOpticalEther (233), -- Avici Optical Ethernet Aggregate
atmbond (234), -- atmbond
voiceFGDOS (235), -- voice FGD Operator Services

```
            mocaVersion1 (236), -- MultiMedia over Coax Alliance (MoCA) Interface
                    -- as documented in information provided privately to IANA
            ieee80216WMAN (237), -- IEEE 802.16 WMAN interface
            adsl2plus (238), -- Asymmetric Digital Subscriber Loop Version 2,
                        -- Version 2 Plus and all variants
            dvbRcsMacLayer (239), -- DVB-RCS MAC Layer
            dvbTdm (240), -- DVB Satellite TDM
            dvbRcsTdma (241), -- DVB-RCS TDMA
            x86Laps (242), -- LAPS based on ITU-T X.86/Y.1323
            wwanPP (243), -- 3GPP
 WWAN
            wwanPP2 (244) -- 3GPP2 WWAN
            }

IANAtunnelType ::= TEXTUAL-CONVENTION
  STATUS     current
  DESCRIPTION
        "The encapsulation method used by a tunnel. The value
        direct indicates that a packet is encapsulated
        directly within a normal IP header, with no
        intermediate header, and unicast to the remote tunnel
        endpoint (e.g., an RFC 2003 IP-in-IP tunnel, or an RFC
        1933 IPv6-in-IPv4 tunnel). The value minimal indicates
        that a Minimal Forwarding Header (RFC 2004) is
        inserted between the outer header and the payload
        packet. The value UDP indicates that the payload
        packet is encapsulated within a normal UDP packet
        (e.g., RFC 1234).

        The values sixToFour, sixOverFour, and isatap
        indicates that an IPv6 packet is encapsulated directly
        within an IPv4 header, with no intermediate header,

        and unicast to the destination determined by the 6to4,
        6over4, or ISATAP protocol.

        The remaining protocol-specific values indicate that a
        header of the protocol of that name is inserted
        between the outer header and the payload header.

        The assignment policy for IANAtunnelType values is
        identical to the policy for assigning IANAifType
        values."
  SYNTAX     INTEGER {
            other(1),       -- none of the following
            direct(2),      -- no intermediate header
            gre(3),         -- GRE encapsulation
            minimal(4),     -- Minimal encapsulation
```

```
            l2tp(5),        -- L2TP encapsulation
            pptp(6),        -- PPTP encapsulation
            l2f(7),         -- L2F encapsulation
            udp(8),         -- UDP encapsulation
            atmp(9),        -- ATMP encapsulation

           msdp(10),       -- MSDP encapsulation
            sixToFour(11),   -- 6to4 encapsulation
            sixOverFour(12), -- 6over4 encapsulation
            isatap(13),     -- ISATAP encapsulation
            teredo(14)      -- Teredo encapsulation
           }

 END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANAifType-MIB
No license file was found, but licenses were detected in source scan.

```
APM-MIB DEFINITIONS ::= BEGIN
IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  NOTIFICATION-TYPE,
  Counter32, Unsigned32                 FROM SNMPv2-SMI
  TEXTUAL-CONVENTION, RowStatus, TimeStamp,
  TimeInterval, TruthValue, DateAndTime,
  StorageType                           FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP,
  NOTIFICATION-GROUP                    FROM SNMPv2-CONF
  SnmpAdminString                       FROM SNMP-FRAMEWORK-MIB
  rmon, OwnerString                     FROM RMON-MIB
  protocolDirLocalIndex                 FROM RMON2-MIB;

--  Application Performance Measurement MIB

apm MODULE-IDENTITY
  LAST-UPDATED "200402190000Z"  -- February 19, 2004
  ORGANIZATION "IETF RMON MIB Working Group"
  CONTACT-INFO
     "Author:
             Steve Waldbusser



          Phone:  +1-650-948-6500
          Fax :   +1-650-745-0671
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```

```
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                Andy Bierman
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                San Jose, CA USA 95134
             Tel: +1 408 527-3711
           E-mail: abierman@cisco.com

        Working Group Mailing List: <rmonmib@ietf.org>
        To subscribe send email to: <rmonmib-request@ietf.org>
       "
    DESCRIPTION
       "The MIB module for measuring application performance
       as experienced by end-users.

       Copyright (C) The Internet Society (2004). This version of
       this MIB module is part of RFC 3729; see the RFC itself for
       full legal notices."

    REVISION "200402190000Z"    -- February 19, 2004
    DESCRIPTION
       "The original version of this MIB Module, published as
       RFC3729."

    ::= { rmon 23 }

apmMibObjects OBJECT IDENTIFIER ::= { apm 1 }
apmConformance OBJECT IDENTIFIER ::= { apm 2 }
apmCompliances
     OBJECT IDENTIFIER ::= { apmConformance 1 }
apmGroups         OBJECT IDENTIFIER ::= { apmConformance 2 }


AppLocalIndex ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
       "A locally arbitrary unique identifier associated with an
       application or application verb.

       All objects of type AppLocalIndex are assigned by the agent
       out of a common number space. In other words, AppLocalIndex
       values assigned to entries in one table must not overlap with
       AppLocalIndex values assigned to entries in another
       table. Further, every protocolDirLocalIndex value registered
       by the agent automatically assigns the same value out of the
```

AppLocalIndex number space.

For example, if the protocolDirLocalIndex values { 1, 3, 5, 7 }
have been assigned, and the apmHttpFilterAppLocalIndex values
{ 6, 8, 9 } have been assigned:

- Assignment of new AppLocalIndex values must not use
the
values { 1, 3, 5, 6, 7, 8, 9 }.
- AppLocalIndex values { 1, 3, 5, 7 } are automatically
assigned and are associated with the identical value of
protocolDirLocalIndex. In particular, an entry in the
apmAppDirTable indexed by a value provides further
information about a protocol indexed by the same value
in the protocolDirTable of RMON2.

The value for each supported application must remain constant
at least from one re-initialization of the entity's network
management system to the next re-initialization, except that
if an application is deleted and re-created, it must be
re-created with a new value that has not been used since the
last re-initialization.

The specific value is meaningful only within a given SNMP
entity. An AppLocalIndex value must not be re-used until the
next agent restart."
SYNTAX Unsigned32
(1..2147483647)

ProtocolDirNetworkAddress ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"A network level address whose semantics and encoding are
specified by an associated protocolDirLocalIndex
value. Objects of this type must specify which
protocolDirLocalIndex value is used. This value is encoded
according to the encoding rules for the identified
protocolDirectory entry.

For example, if the associated protocolDirLocalIndex indicates
an encapsulation of ip, this object is encoded as a length
octet of 4, followed by the 4 octets of the ip address,
in network byte order.

Objects of this type may allow this value to be the zero
length string. If so, they must identify they meaning of this
value."
SYNTAX OCTET STRING (SIZE(0..255))

DataSourceOrZero ::= TEXTUAL-CONVENTION

STATUS current
DESCRIPTION
"Identifies the source of
the data that the associated
function is configured to analyze. This source can be any
interface on this device.

In order to identify a particular interface, this
object shall identify the instance of the ifIndex
object, defined in [4], for the desired interface.

For example, if an entry were to receive data from
interface #1, this object would be set to ifIndex.1.

If the source of the data isn't an interface or cannot be
localized to an interface, this object would be set to 0.0"

REFERENCE "The DataSource textual convention is defined in
RFC 2021 [5]."
SYNTAX OBJECT IDENTIFIER

RmonClientID ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"A long-lived unique ID assigned to an end-system. This ID is
assigned by the agent using an implementation-specific
algorithm.

Because a client machine may be assigned multiple addresses

over any time period it can be difficult to attribute
behavior to a particular client based solely on its
address. A ClientID may be assigned to provide a more
stable handle for referencing that client. The entity that
assigns the ClientID may use various implementation
techniques to keep track of a client but if the assigning
entity is unable to track client address mappings, it may map
client identifiers to client addresses rather than to
distinct client machines.

This is named ClientID because it helps to solve a problem
seen in network clients (servers usually have well-known,
long-lived addresses). However, ClientID's may be assigned to

any end-system regardless of its role on the network."
SYNTAX Unsigned32 (0..4294967295)

TransactionAggregationType ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION

"Specifies one of 4 different techniques
for aggregating
transactions.

The metrics for a single transaction are the responsiveness of the transaction and whether the transaction succeeded (a boolean). When such metrics are aggregated in this MIB Module, these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the apmReportTable.

The flows(1) aggregation is the simplest. All transactions that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The clients(2) aggregation results in somewhat more aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a
set of metrics for all such unique
tuples.

The servers(3) aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The applications(4) aggregation results in the most aggregation (i.e., the fewest resulting records). All transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as

```
      different applications have widely varying characteristics. As a
      result, this set of aggregations is complete."
    SYNTAX      INTEGER {
                flows(1),    -- Least Aggregation
                clients(2),
                servers(3),
                applications(4) -- Most Aggregation
               }

-- The APM Application Directory Group

-- The Application Directory Table contains a record for every




-- application monitored by this agent. This table is also used to
-- configure whether or not an application will be measured and which
-- bucket boundaries will be used for the application.
--
-- The bucket boundaries define the break-points between bins of a
-- histogram analysis for that application. As an example of how this
-- works, consider an entry representing response-time for http.
-- If the boundaries are set as follows:
-- Boundary1: 500 milliseconds
-- Boundary2: 1 second
-- Boundary3: 2 seconds
-- Boundary4: 5
-- Boundary5: 15
-- Boundary6: 60
--
-- If the following measurements are made (all in milliseconds):
-- 377, 8645, 1300, 487, 1405, 775, 1115, 850, 945, 1054, 7745, 9380
--
-- A report run during this interval would report the following
-- counts:
-- Bucket1: 2
-- Bucket2: 3
-- Bucket3: 4
-- Bucket4: 0
-- Bucket5: 3
-- Bucket6: 0
--
 Bucket7: 0

apmAppDirTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF ApmAppDirEntry
    MAX-ACCESS  not-accessible
    STATUS      current
```

DESCRIPTION
"The APM MIB directory of applications and application verbs. The agent will populate this table with all applications/verbs of any responsivenessType it has the capability to monitor. Since the agent populates this table with every entry it has the capability to monitor, the entries in this table are read-write, allowing the management station to modify parameters in this table but not to add new entries or delete entries (however, entries may be disabled). If new entries are added to the apmHttpFilterTable or the apmUserDefinedAppTable, the agent will add the corresponding entries to this table.

It is an implementation-dependent matter as to how the agent sets these default parameters. For example, it may leave certain entries
in this table 'off(0)' if the agent developer

believes that combination will be infrequently used, allowing a manager that needs that capability to set it to 'on(1)'.

Some applications are registered in the RMON2 protocol directory and some are registered in other tables in this MIB Module. Regardless of where an application is originally registered, it is assigned an AppLocalIndex value that is the primary index for this table.

The contents of this table affect all reports and exceptions generated by this agent. Accordingly, modification of this table should be performed by a manager acting in the role of administrator. In particular, management software should not require or enforce particular configuration of this table - it should reflect the preferences of the site administrator, not the software author. As a practical matter, this requires management
software to allow the administrator to configure
the values it will use so that it can be adapted to the site policy."
::= { apmMibObjects 1 }

apmAppDirEntry OBJECT-TYPE
SYNTAX ApmAppDirEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The APM MIB directory of applications and application

```
      verbs. An entry will exist in this table for all applications
      for which application performance measurement is supported."
  INDEX { apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType }
  ::= { apmAppDirTable 1 }

ApmAppDirEntry ::= SEQUENCE {
  apmAppDirAppLocalIndex           AppLocalIndex,
  apmAppDirResponsivenessType      INTEGER,
  apmAppDirConfig                  INTEGER,
  apmAppDirResponsivenessBoundary1  Unsigned32,
  apmAppDirResponsivenessBoundary2  Unsigned32,
  apmAppDirResponsivenessBoundary3  Unsigned32,
  apmAppDirResponsivenessBoundary4  Unsigned32,
  apmAppDirResponsivenessBoundary5
 Unsigned32,
  apmAppDirResponsivenessBoundary6  Unsigned32
}

apmAppDirAppLocalIndex OBJECT-TYPE
  SYNTAX      AppLocalIndex
  MAX-ACCESS  not-accessible



  STATUS      current
  DESCRIPTION
      "The AppLocalIndex assigned for this application Directory
      entry."
  ::= { apmAppDirEntry 1 }

apmAppDirResponsivenessType OBJECT-TYPE
  SYNTAX      INTEGER {
                transactionOriented(1),
                throughputOriented(2),
                streamingOriented(3)
              }
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "This object describes and configures the agent's support for
      application performance measurement for this application.
      There are 3 types of measurements for different types of
      applications:

      Transaction-Oriented applications have a fairly constant
      workload to perform for all transactions. The responsiveness
      metric for transaction-oriented
```

applications is application
response time (from first request to final delivery of service) and is measured in milliseconds. This is commonly referred to as end-user response time.

Throughput-Oriented applications have widely varying workloads based on the nature of the client request. In particular, throughput-oriented applications vary widely in the amount of data that must be transported to satisfy the request. The responsiveness metric for throughput-oriented applications is kilobits per second.

Streaming-Oriented applications deliver data at a constant metered rate of speed regardless of the responsiveness of the networking and computing infrastructure. This constant rate of speed is generally specified to be below (sometimes well below) the nominal capability of the infrastructure. However, when the infrastructures cannot deliver data at this speed, interruption of service or degradation of service can result. The responsiveness metric for streaming-oriented applications is the ratio of time that the service is degraded or interrupted to the total service time. This metric is measured in parts per million.

Note that for some applications, measuring more than one responsiveness type may be interesting. For agents that wish

to support more than one measurement for a application, they will populate this table with multiple entries for that application, one for each type."
::= { apmAppDirEntry 2 }

apmAppDirConfig OBJECT-TYPE
SYNTAX INTEGER {
off(1),
on(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object describes and configures support for application performance measurement for this application.

If the value of this object is on(2),
the agent supports
measurement of application performance metrics for this

application and is configured to measure such metrics for all APM MIB functions and all interfaces. If the value of this object is off(1), the agent supports measurement of application performance for this application but is configured to not measure these metrics for any APM MIB functions or interfaces. Whenever this value changes from on(2) to off(1), the agent shall delete all related entries in all tables in this MIB Module.

The value of this object must persist across reboots."
::= { apmAppDirEntry 3 }

apmAppDirResponsivenessBoundary1 OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The boundary value between bucket1 and bucket 2. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value
of this object must persist across reboots."
::= { apmAppDirEntry 4 }

apmAppDirResponsivenessBoundary2 OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The boundary value between bucket2 and bucket 3. If this

value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."
::= { apmAppDirEntry 5 }

apmAppDirResponsivenessBoundary3 OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The boundary value between bucket3 and bucket 4. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

```
      The value of this object must persist across reboots."
   ::= { apmAppDirEntry 6 }

apmAppDirResponsivenessBoundary4 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-write
   STATUS      current
    DESCRIPTION
      "The boundary value between bucket4 and bucket 5. If this
      value is modified, all entries in the apmReportTable must be
      deleted by the agent.

      The value of this object must persist across reboots."
   ::= { apmAppDirEntry 7 }

apmAppDirResponsivenessBoundary5 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The boundary value between bucket5 and bucket 6. If this
      value is modified, all entries in the apmReportTable must be
      deleted by the agent.

      The value of this object must persist across reboots."
   ::= { apmAppDirEntry 8 }

apmAppDirResponsivenessBoundary6 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The boundary value between bucket6 and bucket 7. If this




      value is modified, all entries in the apmReportTable must be
      deleted by the agent.

      The value of
 this object must persist across reboots."
   ::= { apmAppDirEntry 9 }

-- Scalars related to the Application Directory table

apmBucketBoundaryLastChange OBJECT-TYPE
   SYNTAX     TimeStamp
```

```
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime the last time that any bucket boundary
     in any appDirEntry was changed. This object can help to
     determine if two managers are both trying to enforce different
     configurations of this table."
  ::= { apmMibObjects 2 }

apmAppDirID OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "This object allows managers to avoid downloading application
     directory information when the directory is set to a known
     (usually fixed) configuration.

     If the value of this object isn't 0.0, it signifies
     that the entire contents of the apmAppDirTable,
     apmHttpFilterTable, apmUserDefinedAppTable and
      protocolDirTable are equal to a known state identified
     by the value of this object. If a manager recognizes this
     value as identifying a directory configuration it has a local
     copy of, it may use this local copy rather than downloading
     these tables. Note that it may have downloaded this local copy
     (and the ID) from another agent and used this copy for all
     other agents that advertised the same ID.

     If an agent recognizes that the entire contents of the
     apmAppDirTable, apmHttpFilterTable,
     apmUserDefinedAppTable and protocolDirTable are equal to
     a known state to which an ID has been assigned, it should set
     this object to that ID.

     In many cases when this feature is used, the application
     directory information will be in read-only memory and thus the
     tables may not be modified via SNMP requests. In the event



     that the tables are writable and a modification is made,
 the
     agent is responsible for setting this object to 0.0 if it
     cannot determine that the state is equal to a known state.

     An agent is not obligated to recognize and advertise all such
     registered states as it may not have knowledge of all states.
```

Thus, a manager may encounter agents whose DirectoryID value
is 0.0 even though the contents of the directory were equal to
a registered state.

Note that the contents of those tables includes the
protocolDirLocalIndex and appLocalIndex values. In other
words, these values can't be assigned randomly on each agent,
but must be equal to values that are part of the known
state. While it is possible for a manager to download
application directory details using SNMP and to set the
appropriate directoryID, the manager would need to have some
scheme to ensure consistent values of LocalIndex variables
from agent to agent.
Such schemes are outside the scope of
this specification.

Application directory registrations are unique within an
administrative domain.

Typically these registrations will be made by an agent
software developer who will set the application directory
tables to a read-only state and assign a DirectoryID to that
state. Thus, all agents running this software would share the
same DirectoryID. As the application directory might change
from one software release to the next, the developer may
register different DirectoryID's for each software release.

A customer could also create a site-wide application directory
configuration and assign a DirectoryID to that configuration
as long as consistent values of LocalIndex variables can be
ensured.

The value of this object must persist across reboots."
::= { apmMibObjects 3 }

-- APM HTTP Filter Table

-- The HTTP Filter Table
creates virtual applications which measure the
-- performance of certain web pages or sets of web pages. Some
-- circumstances where this is particularly useful are:
--
-- - An Intranet or ASP scenario where a business application is
-- running on one or more web pages or scripts.

-- (i.e., /expense/submit.cgi?employeeID=3426&...)

```
--      - A web-hosting scenario where one wants to measure the
--        service level for a particular customer
--      - An e-commerce scenario where the performance of certain
--        pages needs to be monitored more closely.
--        (i.e., shopping cart, shipping, credit card authorization)

apmHttpFilterTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmHttpFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A table that creates virtual applications which measure the
     performance of certain web pages or sets of web pages.

     When an entry is added to this table, the agent
 will
     automatically create one or more entries in the
     apmAppDirTable (one for each responsivenessType it is
     capable of measuring).

     Note that when entries exist in this table some HTTP
     transactions will be summarized twice: in applications
     represented here as well as the HTTP application. If entries
     in this table overlap, these transactions may be summarized
     additional times.

     The contents of this table affect all reports and exceptions
     generated by this agent. Accordingly, modification of this
     table should be performed by a manager acting in the role of
     administrator. In particular, management software should not
     require or enforce particular configuration of this table - it
     should reflect the preferences of the site administrator, not
     the software author."
  ::= { apmMibObjects 4 }

apmHttpFilterEntry OBJECT-TYPE
  SYNTAX      ApmHttpFilterEntry
  MAX-ACCESS  not-accessible
   STATUS      current
  DESCRIPTION
     "A virtual application which measure the performance of certain
     web pages or sets of web pages."
  INDEX { apmHttpFilterIndex }
  ::= { apmHttpFilterTable 1 }

ApmHttpFilterEntry ::= SEQUENCE {
  apmHttpFilterIndex            Unsigned32,
  apmHttpFilterAppLocalIndex      AppLocalIndex,
```

```
  apmHttpFilterServerProtocol     Unsigned32,
  apmHttpFilterServerAddress      ProtocolDirNetworkAddress,
  apmHttpFilterURLPath            OCTET STRING,
  apmHttpFilterMatchType          INTEGER,
  apmHttpFilterOwner              OwnerString,
  apmHttpFilterStorageType        StorageType,
  apmHttpFilterRowStatus          RowStatus
}

apmHttpFilterIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An index that uniquely identifies an entry in the
     apmHttpFilterTable."
  ::= { apmHttpFilterEntry 1 }

apmHttpFilterAppLocalIndex
 OBJECT-TYPE
  SYNTAX      AppLocalIndex
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The AppLocalIndex that represents HTTP transactions
     that match this entry.

     This object is read-only. A value is created by the agent from
     an unused AppLocalIndex value when this apmHttpFilterEntry is
     created."
  ::= { apmHttpFilterEntry 2 }

apmHttpFilterServerProtocol OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The protocolDirLocalIndex value of the network level protocol
     of the apmHttpFilterServerAddress."
  ::= { apmHttpFilterEntry 3 }

apmHttpFilterServerAddress OBJECT-TYPE
  SYNTAX      ProtocolDirNetworkAddress
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
     "This entry will only represent transactions coming from the
     network address specified in this object.




     This is represented
 as an octet string with
     specific semantics and length as identified
     by the associated apmHttpFilterServerProtocol object.

     If this object is the zero-length string, then this entry will
     match one of the addresses represented by the 'host' component
     of the associated apmHttpFilterURLPath object, where the
     format if a URL [9] is
     http://<host>:<port>/<path>?<searchpart>."
  ::= { apmHttpFilterEntry 4 }

apmHttpFilterURLPath OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(0..65535))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This entry will only represent HTTP transactions
     where the URL path component in the request matches this
     value. This value represents the requested path regardless of
     any substitution that the server might perform.

     Prior to the matching, the URL is stripped of any server
     address or DNS name and consists solely of the path name on

     that server.

     If the length of this object is zero, then this entry will
     match if the associated apmHttpFilterServerAddress match. If
     the length of that object is also zero, then this entry will
     match nothing.

     The value of the associated apmHttpFilterMatchType dictates
     the type of matching that will be attempted."
  ::= { apmHttpFilterEntry 5 }

apmHttpFilterMatchType OBJECT-TYPE
  SYNTAX      INTEGER {
                exact(1),
                stripTrailingSlash(2),
                prefix(3)
```

```
            }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The matching algorithm used to compare the URL pathname.

        If the value is exact(1), then the pathname component will be
        compared with the associated apmHttpFilterURLPath and
        will only be associated with this entry if it matches exactly.



        If the value is stripTrailingSlash(2), then the pathname

     component will be compared with the associated
        apmHttpFilterURLPath and will only be associated with this
        entry if it matches exactly or if the pathname ends with a '/'
        symbol and matches apmHttpFilterURLPath if the '/' symbol is
        removed from the pathname. This option exists for those paths
        where an optional trailing slash is possible but for which a
        prefix match would be too broad.

        If the value is prefix(3), then the pathname component will be
        compared with the associated apmHttpFilterURLPath and will
        only be associated with this entry if the beginning of the
        pathname matches every octet of this value. Octets that extend
        beyond the length of this value are ignored."
    ::= { apmHttpFilterEntry 6 }

apmHttpFilterOwner OBJECT-TYPE
    SYNTAX      OwnerString
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The entity that configured this entry and is
        therefore using
     the resources assigned to it."
    ::= { apmHttpFilterEntry 7 }

apmHttpFilterStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type of this apmHttpFilterEntry. If the value of
        this object is 'permanent', no objects in this row need to be
        writable."
    ::= { apmHttpFilterEntry 8 }
```

```
apmHttpFilterRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The status of this apmHttpFilterEntry. No objects in this row
     may be modified while the row's status is 'active'."
  ::= { apmHttpFilterEntry 9 }

apmHttpIgnoreUnregisteredURLs OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current



  DESCRIPTION
     "When true, APM measurements of HTTP transactions will only
     measure transactions relating to URLs that match a filter in
     the apmHttpFilterTable. Thus,
 measurements for the HTTP
     application will present aggregated statistics for
     URL-matching HTTP transactions and measurements for the HTTP
     GET application verb will present aggregated statistics for
     URL-matching HTTP GET transactions.

     This will be used in environments that wish to monitor only
     targeted URLs and to ignore large volumes of internet web
     browsing traffic.

     This object affects all APM reports and exceptions generated
     by this agent. Accordingly, modification of this object should
     be performed by a manager acting in the role of
     administrator. In particular, management software should not
     require or enforce particular configuration of this object -
     it should reflect the preferences of the site administrator,
     not the software author.

     The value of this object must persist across reboots."
  ::= { apmMibObjects 5 }

apmHttp4xxIsFailure OBJECT-TYPE
  SYNTAX
    TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
```

"When true, this agent will recognize HTTP errors in the range
of 400 through 499 and will treat them as unavailable
transactions. When false or when this object isn't supported,
they will be treated as successful transactions.

This object allows such error pages to be tracked at the
possible expense of having user typos treated as poor service
on the part of the web server.

This object affects all reports and exceptions generated by
this agent. Accordingly, modification of this object should be
performed by a manager acting in the role of administrator. In
particular, management software should not require or enforce
particular configuration of this object - it should reflect
the preferences of the site administrator, not the software
author.

The value of this object must persist
across reboots."
::= { apmMibObjects 6 }

-- The APM User-Defined Application Table

-- Many application protocols will never be registered with a
-- standards body (and thus included in a protocol directory standard)
-- because they are custom, in-house or proprietary
-- applications. Nevertheless, implementation strategies exist for
-- monitoring the end-user experience of these applications.
--
-- This read-only table provides a means for the agent to advertise
-- which user-defined applications it is monitoring and to associate
-- each with an AppLocalIndex value. It is an implementation-dependent
-- matter as to how the agent learns how to monitor these
-- applications.

apmUserDefinedAppTable OBJECT-TYPE
SYNTAX SEQUENCE OF ApmUserDefinedAppEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table that advertises user-defined applications that the
agent is measuring.

The agent will automatically create one or more
entries in the
apmAppDirTable (one for each responsivenessType it is

```
      capable of measuring) for each entry in this table.

      Note that when entries exist in this table some
      transactions can be summarized more than once if there is
      overlap between applications defined here and applications
      defined in the protocol directory or in the httpFilter table."
   ::= { apmMibObjects 7 }

apmUserDefinedAppEntry OBJECT-TYPE
   SYNTAX      ApmUserDefinedAppEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A user-defined application that the agent is measuring, along
      with its AppLocalIndex assignment.

      The apmAppDirAppLocalIndex value in the index identifies
      the agent-assigned AppLocalIndex value for this user-defined
      application."
   INDEX { apmAppDirAppLocalIndex }
   ::= { apmUserDefinedAppTable 1 }

ApmUserDefinedAppEntry ::= SEQUENCE {
   apmUserDefinedAppParentIndex    Unsigned32,



    apmUserDefinedAppApplication    SnmpAdminString
}

apmUserDefinedAppParentIndex OBJECT-TYPE
   SYNTAX      Unsigned32 (1..2147483647)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The protocolDirLocalIndex value of the highest-layer
      protocol defined in the protocolDirTable that this
      application is a child of."
   ::= { apmUserDefinedAppEntry 1 }

apmUserDefinedAppApplication OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "A human readable descriptive tag for this application."
   ::= { apmUserDefinedAppEntry 2 }
```

```
-- The APM Name Table

apmNameTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmNameEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A client machine may have multiple addresses during a period
     of monitoring. The apmNameTable assigns a long-lived
     identifier to a client and records what addresses
were
     assigned to that client for periods of time. Various
     implementation techniques exist for tracking this mapping but
     if an agent is unable to track client address mappings, it may
     map client identifiers to client addresses rather than to
     distinct client machines.

     A particular apmNameClientID should be a constant attribute of
     a particular client. When available, the agent may also record
     the machine name and/or user name which may be valuable for
     displaying to humans. The apmNameMachineName and
     apmNameUserName are relatively constant, changing only if
     these attributes actually change on the client.

     The agent will store a historical log of these entries, aging
     out old entries as the log becomes too large. Since this table
     contains information vital to the interpretation of other
     tables (e.g., the apmReportTable), the agent should ensure that



     the log doesn't
age out entries that would be referenced by
     data in those tables.

     Note that an entry for a clientID is active from its
     StartTime until the StartTime of another entry (for the same
     clientID) that supersedes it, or 'now' if none supersede
     it. Therefore, if a clientID only has a single entry, it is by
     definition very new and should never be aged out. No entry for
     a clientID should be aged out unless it has been updated by a
     new entry for the client (i.e., with an updated address) and
     only if the new entry is 'old' enough.

     To determine how old is old enough, compute the maximum value
     of Interval * (NumReports + 1) of all entries in the
     apmReportControlTable (the '+ 1' is to allow a reasonable
     period of time for the report to be downloaded). Then take the
```

```
      larger of this value and the age in seconds of the oldest
      entry in the current transaction table. If an entry for
 a
      clientID is superseded by another entry whose StartTime is
      more than this many seconds ago, then the older entry may be
      deleted."
  ::= { apmMibObjects 8 }

apmNameEntry OBJECT-TYPE
  SYNTAX      ApmNameEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "An entry in the APM name table. An entry exists for each
      period of time that a client has been associated with a
      particular address.

      The protocolDirLocalIndex value in the index identifies
      the network layer protocol for the ClientAddress for this
      entry.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length which exceeds
      the maximum for the SNMP protocol. Implementations should take
      care to avoid such combinations."
  INDEX { apmNameClientID,
          protocolDirLocalIndex, apmNameClientAddress,
          apmNameMappingStartTime }
  ::=
 { apmNameTable 1 }

ApmNameEntry ::= SEQUENCE {
  apmNameClientID               RmonClientID,
  apmNameClientAddress          ProtocolDirNetworkAddress,



  apmNameMappingStartTime       DateAndTime,
  apmNameMachineName            SnmpAdminString,
  apmNameUserName               SnmpAdminString
}

apmNameClientID OBJECT-TYPE
  SYNTAX      RmonClientID
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A unique ID assigned to the machine represented by this
```

mapping. This ID is assigned by the agent using an
implementation-specific algorithm."
::= { apmNameEntry 1 }

apmNameClientAddress OBJECT-TYPE
SYNTAX ProtocolDirNetworkAddress (SIZE(1..255))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The network client address for this client when this mapping
was active.

This is represented as an octet string with specific semantics
and length as
identified by the protocolDirLocalIndex
component of the index. This object may not be the zero length
string.

Since this object is an index variable, it is encoded in the
index according to the index encoding rules. For example, if
the protocolDirLocalIndex component of the index indicates an
encapsulation of ip, this object is encoded as a length octet
of 4, followed by the 4 octets of the ip address, in network
byte order. Care should be taken to avoid values of this
object that, in conjunction with the other index variables,
would result in an index longer than SNMP's maximum of 128
subidentifiers."
::= { apmNameEntry 2 }

apmNameMappingStartTime OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The time that the agent first discovered this mapping
as active."
::= { apmNameEntry 3 }

apmNameMachineName OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The human readable name of the client machine.

```
      If the client has no machine name or the agent is
      unable to learn the machine name, this object will be
      a zero-length string."
   ::= { apmNameEntry 4 }

apmNameUserName OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The human readable name of a human user using the client
      machine. If more than one user name are available
      simultaneously, it is an implementation-dependent matter as to
      which is used here. However, if the user name changes, this
      object should change to reflect that change.

      Non-human user names like 'root' or 'administrator' aren't
      intended as values for this object. If the client has no
      recorded user name or the agent is unable to learn a user
      name, this
 object will be a zero-length string."
   ::= { apmNameEntry 5 }

-- The APM Report Group

apmReportControlTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF ApmReportControlEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Parameters that control the creation of a set of reports that
      aggregate application performance."
   ::= { apmMibObjects 9 }

apmReportControlEntry OBJECT-TYPE
   SYNTAX      ApmReportControlEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A conceptual row in the apmReportControlTable.

      An example of the indexing of this table is




      apmReportControlInterval.3"
   INDEX { apmReportControlIndex }
   ::= { apmReportControlTable 1 }
```

```
ApmReportControlEntry ::= SEQUENCE {
  apmReportControlIndex            Unsigned32,
  apmReportControlDataSource       DataSourceOrZero,
  apmReportControlAggregationType  TransactionAggregationType,
  apmReportControlInterval
 Unsigned32,
  apmReportControlRequestedSize    Unsigned32,
  apmReportControlGrantedSize      Unsigned32,
  apmReportControlRequestedReports Unsigned32,
  apmReportControlGrantedReports   Unsigned32,
  apmReportControlStartTime        TimeStamp,
  apmReportControlReportNumber     Unsigned32,
  apmReportControlDeniedInserts    Counter32,
  apmReportControlDroppedFrames    Counter32,
  apmReportControlOwner            OwnerString,
  apmReportControlStorageType      StorageType,
  apmReportControlStatus           RowStatus
}


apmReportControlIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An index that uniquely identifies an entry in the
     apmReportControlTable.  Each such entry defines a unique
     report whose results are placed in the apmReportTable on
     behalf of this apmReportControlEntry."
  ::= { apmReportControlEntry 1 }

apmReportControlDataSource OBJECT-TYPE
   SYNTAX      DataSourceOrZero
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The source of the data for APM Reports generated on
     behalf of this apmReportControlEntry.

     If the measurement is being performed by a probe, this should
     be set to interface or port where data was received for
     analysis. If the measurement isn't being performed by a probe,
     this should be set to the primary interface over which the
     measurement is being performed. If the measurement isn't being
     performed by a probe and there is no primary interface or this
```

```
      information isn't known, this object should be set to 0.0.

      This object may not be modified if the associated
      apmReportControlStatus object is equal to active(1)."
    ::= { apmReportControlEntry 2 }

apmReportControlAggregationType OBJECT-TYPE
    SYNTAX      TransactionAggregationType
          --    INTEGER {
          --      flows(1),
           --      clients(2),
          --      servers(3),
          --      applications(4)
          --    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The type of aggregation being performed for this set of
      reports.

      The metrics for a single transaction are the responsiveness of
      the transaction and whether the transaction succeeded (a
      boolean). When such metrics are aggregated in this MIB Module,
      these metrics are replaced by averages and distributions of
      responsiveness and availability. The metrics describing
      aggregates are constant no matter which type of aggregation is
      being performed. These metrics may be found in the
      apmReportTable.

      The flows(1) aggregation is the simplest. All transactions
      that share common application/server/client 3-tuples are
      aggregated together, resulting in a set of metrics for all
      such unique 3-tuples.

       The clients(2) aggregation results in somewhat more
      aggregation (i.e., fewer resulting records). All transactions
      that share common application/client tuples are aggregated
      together, resulting in a set of metrics for all such unique
      tuples.

      The servers(3) aggregation usually results in still more
      aggregation (i.e., fewer resulting records). All transactions
      that share common application/server tuples are aggregated
      together, resulting in a set of metrics for all such unique
      tuples.

      The applications(4) aggregation results in the most
```

```
      aggregation (i.e., the fewest resulting records). All
      transactions that share a common application are aggregated
      together, resulting in a set of metrics for all such unique
      applications.

      Note that it is not meaningful to aggregate applications, as
      different applications have widely varying characteristics.
      As
 a result, this set of aggregations is complete.

      This object may not be modified if the associated
      apmReportControlStatus object is equal to active(1)."
  ::= { apmReportControlEntry 3 }

apmReportControlInterval OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "Seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The interval in seconds over which data is accumulated before
      being aggregated into a report in the apmReportTable.  All
      reports with the same apmReportControlIndex will be based on
      the same interval. This object must be greater than zero.

      Many users desire that these reports be synchronized to within
      seconds of the beginning of the hour because the results may
      be correlated more meaningfully to business behavior and so
      that data from multiple agents is aggregated over the same
      time periods. Thus management software may take extra effort
      to synchronize
 reports to the beginning of the hour and to one
      another. However, the agent must not allow reports to 'drift'
      over time as they will quickly become unsynchronized. In
      particular, if there is any fixed processing delay between
      reports, the reports should deduct this time from the interval
      so that reports don't drift.

      This object may not be modified if the associated
      apmReportControlStatus object is equal to active(1)."
  DEFVAL { 3600 }
  ::= { apmReportControlEntry 4 }

apmReportControlRequestedSize OBJECT-TYPE
  SYNTAX      Unsigned32
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The number of entries requested to be allocated for each
     report generated on behalf of this entry."
  ::= { apmReportControlEntry 5 }



apmReportControlGrantedSize OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of entries per
 report the agent has allocated
     based on the requested amount in apmReportControlRequestedSize.
     Since multiple reports are saved, the total number of entries
     allocated will be this number multiplied by the value of
     apmReportControlGrantedReports, or 1 if that object doesn't
     exist.

     When the associated apmReportControlRequestedSize object is
     created or modified, the agent should set this object as
     closely to the requested value as is possible for the
     particular implementation and available resources. When
     considering resources available, the agent must consider its
     ability to allocate this many entries for all reports.

     Note that while the actual number of entries stored in the
     reports may fluctuate due to changing conditions, the agent
     must continue to have storage available to satisfy the full
     report size for all reports when necessary. Further, the agent
     must
 not lower this value except as a result of a set to the
     associated apmReportControlRequestedSize object."
  ::= { apmReportControlEntry 6 }

apmReportControlRequestedReports OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The number of saved reports requested to be allocated on
     behalf of this entry."
  ::= { apmReportControlEntry 7 }

apmReportControlGrantedReports OBJECT-TYPE
```

SYNTAX Unsigned32 (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of saved reports the agent has allocated
based on the requested amount in
apmReportControlRequestedReports. Since each report can have
many entries, the total number of entries allocated will be
this number multiplied by the value of
apmReportControlGrantedSize, or 1 if that object doesn't
exist.

When the associated apmReportControlRequestedReports
object is
created or modified, the agent should set this object as
closely to the requested value as is possible for the
particular implementation and available resources. When
considering resources available, the agent must consider its
ability to allocate this many reports each with the number of
entries represented by apmReportControlGrantedSize, or 1 if
that object doesn't exist.

Note that while the storage required for each report may
fluctuate due to changing conditions, the agent must continue
to have storage available to satisfy the full report size for
all reports when necessary. Further, the agent must not lower
this value except as a result of a set to the associated
apmReportControlRequestedSize object."
::= { apmReportControlEntry 8 }

apmReportControlStartTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"The value of sysUpTime when the system began processing the
report in progress. Note that the report in progress is not
available.

This object may be used by the management station to figure
out the start time for all previous reports saved for this
apmReportControlEntry, as reports are started at fixed
intervals."
::= { apmReportControlEntry 9 }

```
apmReportControlReportNumber OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of the report in progress. When an
     apmReportControlEntry is activated, the first report will be
     numbered one."
  ::= { apmReportControlEntry 10 }

apmReportControlDeniedInserts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of failed attempts to add an entry to reports for




     this apmReportControlEntry
 because the number of entries
     would have exceeded apmReportControlGrantedSize.

     This number is valuable in determining if enough entries have
     been allocated for reports in light of fluctuating network
     usage. Note that since an entry that is denied will often be
     attempted again, this number will not predict the exact number
     of additional entries needed, but can be used to understand
     the relative magnitude of the problem.

     Also note that there is no ordering specified for the entries
     in the report, thus there are no rules for which entries will
     be omitted when not enough entries are available. As a
     consequence, the agent is not required to delete 'least
     valuable' entries first."
  ::= { apmReportControlEntry 11 }

apmReportControlDroppedFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The total number of frames which were
 received by the agent
     and therefore not accounted for in the *StatsDropEvents, but
     for which the agent chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the agent
     is out of some resources and decides to shed load from this
```

collection.

This count does not include packets that were not counted because they had MAC-layer errors.

This counter is only relevant if this apm report is based on a data source whose collection methodology is based on analyzing network traffic.

Note that if the apmReportTables are inactive because no applications are enabled in the application directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."
::= { apmReportControlEntry 12 }

apmReportControlOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create

STATUS current

DESCRIPTION
"The entity that configured this entry and is therefore using the resources assigned to it."
::= { apmReportControlEntry 13 }

apmReportControlStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type of this apmReportControlEntry. If the value of this object is 'permanent', no objects in this row need to be writable."
::= { apmReportControlEntry 14 }

apmReportControlStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this apmReportControlEntry.

An entry may not exist in the active state unless all

objects in the entry have an appropriate value. The only
objects in the entry that may be modified while the entry is
in the active state are apmReportControlRequestedSize and
apmReportControlRequestedReports.

If this object is not equal to active(1), all
associated entries in the apmReportTable shall be deleted
by the agent."
::= { apmReportControlEntry 15 }

-- The APM Report Table

apmReportTable OBJECT-TYPE
SYNTAX SEQUENCE OF ApmReportEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The data resulting from aggregated APM reports. Consult the
definition of apmReportControlAggregationType for the
definition of the various types of aggregations."
::= { apmMibObjects 10 }

apmReportEntry OBJECT-TYPE
SYNTAX ApmReportEntry
MAX-ACCESS not-accessible

STATUS current
DESCRIPTION
"A conceptual row in the apmReportTable.
The apmReportControlIndex value in the index identifies the
apmReportControlEntry on whose behalf this entry was created.
The apmReportIndex value in the index identifies which report
(in the series of reports) this
entry is a part of.
The apmAppDirAppLocalIndex value in the index identifies
the common application of the transactions aggregated in this
entry.
The apmAppDirResponsivenessType value in the index
identifies the type of responsiveness metric reported by
this entry and uniquely identifies this entry when more
than one responsiveness metric is measured for a flow.
Entries will only exist in this table for those
combinations of AppLocalIndex and ResponsivenessType
that are configured 'on(1)'.
The protocolDirLocalIndex value in the index identifies
the network layer protocol of the apmReportServerAddress.

```
      When the associated apmReportControlAggregationType value is
      equal to applications(4) or clients(2), this
      protocolDirLocalIndex value will equal 0.
      The apmReportServerAddress value in the index identifies the
      network layer address of the server in transactions
 aggregated
      in this entry.
      The apmNameClientID value in the index identifies the
      client in transactions aggregated in this entry. If the
      associated apmReportControlAggregationType is equal to
      applications(4) or servers(3), then this protocolDirLocalIndex
      value will equal 0.

      An example of the indexing of this entry is
      apmReportTransactionCount.3.15.3.1.8.4.192.168.1.2.3232235788

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length which exceeds
      the maximum for the SNMP protocol. Implementations should take
      care to avoid such combinations."
  INDEX { apmReportControlIndex, apmReportIndex,
          apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType,
          protocolDirLocalIndex, apmReportServerAddress,
          apmNameClientID }
  ::= { apmReportTable 1 }

ApmReportEntry ::= SEQUENCE {
  apmReportIndex
              Unsigned32,
  apmReportServerAddress         ProtocolDirNetworkAddress,



  apmReportTransactionCount       Unsigned32,
  apmReportSuccessfulTransactions Unsigned32,
  apmReportResponsivenessMean     Unsigned32,
  apmReportResponsivenessMin      Unsigned32,
  apmReportResponsivenessMax      Unsigned32,
  apmReportResponsivenessB1       Unsigned32,
  apmReportResponsivenessB2       Unsigned32,
  apmReportResponsivenessB3       Unsigned32,
  apmReportResponsivenessB4       Unsigned32,
  apmReportResponsivenessB5       Unsigned32,
  apmReportResponsivenessB6       Unsigned32,
  apmReportResponsivenessB7       Unsigned32
}
```

```
apmReportIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The value of apmReportControlReportNumber for the report to
     which this entry belongs."
  ::= { apmReportEntry 1 }

apmReportServerAddress OBJECT-TYPE
  SYNTAX
    ProtocolDirNetworkAddress
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network server address for this apmReportEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

     Since this object is an index variable, it is encoded in the
     index according to the index encoding rules.  For example, if
     the protocolDirLocalIndex indicates an encapsulation of ip,
     this object is encoded as a length octet of 4, followed by the
     4 octets of the ip address, in network byte order. Care
     should be taken to avoid values of this object that, in
     conjunction with the other index variables, would result in an
     index longer than SNMP's maximum of 128 subidentifiers.

     If the associated apmReportControlAggregationType is equal to
     applications(4) or clients(2), then this object will
 be a null
     string and will be encoded simply as a length octet of 0."
  ::= { apmReportEntry 2 }




apmReportTransactionCount OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of transactions aggregated into this record."
  ::= { apmReportEntry 3 }

apmReportSuccessfulTransactions OBJECT-TYPE
```

```
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of successful transactions aggregated into
     this record."
  ::= { apmReportEntry 4 }

apmReportResponsivenessMean OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The arithmetic mean of the responsiveness metrics for all
     successful transactions aggregated into this record."
  ::= { apmReportEntry 5 }

apmReportResponsivenessMin OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS
   current
  DESCRIPTION
     "The minimum of the responsiveness metrics for all
     successful transactions aggregated into this record."
  ::= { apmReportEntry 6 }

apmReportResponsivenessMax OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The maximum of the responsiveness metrics for all
     successful transactions aggregated into this record."
  ::= { apmReportEntry 7 }

-- Note that when updating a report entry, a transaction will not be
-- counted in more than 1 bucket in an entry. It will be counted in
-- the first bucket that matches, starting with Bucket 1 (B1). Note
-- that if a transaction matches 2 application types, it will update




-- one bucket in each of 2 entries in this table.

apmReportResponsivenessB1 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record
 whose responsiveness was less than boundary1 value for
     this application."
  ::= { apmReportEntry 8 }

apmReportResponsivenessB2 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Bucket 1 and was
     greater than or equal to the boundary1 value for this
     application and less than the boundary2 value for this
     application."
  ::= { apmReportEntry 9 }

apmReportResponsivenessB3 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Bucket 1 or 2
     and as greater than or equal to the boundary2 value for this
     application and less than the boundary3 value for this
     application."
  ::= { apmReportEntry
 10 }

apmReportResponsivenessB4 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 3 and was greater than or equal to the boundary3 value
     for this application and less than the boundary4 value for
     this application."
  ::= { apmReportEntry 11 }
```

```
apmReportResponsivenessB5 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 4 and was greater than or equal to the boundary4 value
     for this application and less than the boundary5 value for
     this application."
  ::= { apmReportEntry 12 }

apmReportResponsivenessB6 OBJECT-TYPE
  SYNTAX      Unsigned32
   MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 5 and was greater than or equal to the
     boundary5 value for this application and less than the
     boundary6 value for this application."
  ::= { apmReportEntry 13 }

apmReportResponsivenessB7 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 6 and was greater than or equal to the boundary6 value
     for this application."
  ::= { apmReportEntry 14 }

-- APM Transaction Table

apmTransactionTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmTransactionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains transactions
 that are currently running
     or have recently finished."
  ::= { apmMibObjects 11 }

apmTransactionEntry OBJECT-TYPE
```

```
  SYNTAX      ApmTransactionEntry


  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the apmTransactionTable.

     The apmAppDirAppLocalIndex value in the index identifies
     the application of the transaction represented by this entry.
     The apmAppDirResponsivenessType value in the index
     identifies the type of responsiveness metric reported by
     this entry and uniquely identifies this entry when more
     than one responsiveness metric is measured for a flow.
     Entries will only exist in this table for those
     combinations of AppLocalIndex and ResponsivenessType
     that are configured 'on(1)'.
     The protocolDirLocalIndex value in the index identifies
     the network layer protocol of the apmTransactionServerAddress.
     The apmTransactionServerAddress
 value in the index identifies
     the network layer address of the server in the transaction
     represented by this entry.
     The apmNameClientID value in the index identifies the
     client in the transaction represented by this entry.

     An example of the indexing of this entry is
     apmTransactionCount.3.1.8.4.192.168.1.2.3232235788.2987

     Note that some combinations of index values may result in an
     index that exceeds 128 sub-identifiers in length which exceeds
     the maximum for the SNMP protocol. Implementations should take
     care to avoid such combinations."
  INDEX { apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType,
          protocolDirLocalIndex, apmTransactionServerAddress,
          apmNameClientID, apmTransactionID }
  ::= { apmTransactionTable 1 }

ApmTransactionEntry ::= SEQUENCE {
  apmTransactionServerAddress      ProtocolDirNetworkAddress,
  apmTransactionID
 Unsigned32,
  apmTransactionResponsiveness     Unsigned32,
  apmTransactionAge                TimeInterval,
  apmTransactionSuccess            TruthValue
}
```

```
apmTransactionServerAddress OBJECT-TYPE
  SYNTAX      ProtocolDirNetworkAddress (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION


      "The network server address for this apmTransactionEntry.

      This is represented as an octet string with specific semantics
      and length as identified by the protocolDirLocalIndex
      component of the index. This object may not be the zero length
      string.

      For example, if the protocolDirLocalIndex indicates an
      encapsulation of ip, this object is encoded as a length octet
      of 4, followed by the 4 octets of the ip address, in network
      byte order. Care should be taken to avoid values of this
      object that, in conjunction with the other index variables,
      would result in an index longer than
 SNMP's maximum of 128
      subidentifiers."
  ::= { apmTransactionEntry 1 }

apmTransactionID OBJECT-TYPE
  SYNTAX      Unsigned32 (0..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A unique value for this transaction amongst other
      transactions sharing the same application layer protocol and
      server and client addresses. Implementations may choose to use
      the value of the client's source port, when possible."
  ::= { apmTransactionEntry 2 }

apmTransactionResponsiveness OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The current value of the responsiveness metric for this
      transaction. If this transaction has completed, the final
      value of the metric will be available.

      Note that this value may change over the lifetime of the
      transaction and it is the final value of this metric that is
```

```
      recorded as the responsiveness
 of the transaction for use in
      other APM MIB functions."
  ::= { apmTransactionEntry 3 }

apmTransactionAge OBJECT-TYPE
  SYNTAX      TimeInterval
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "If this transaction is still executing, this value shall be




      the length of time since it was started. If it has completed,
      this value shall be the length of time it was executing."
  ::= { apmTransactionEntry 4 }

apmTransactionSuccess OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The success of this transaction up to this time. Once a
      transaction has been marked as failed, it cannot move back
      into the successful state."
  ::= { apmTransactionEntry 5 }

apmTransactionsRequestedHistorySize OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "The maximum number of completed transactions
 desired to be
      retained in the apmTransactionTable. If the agent doesn't have
      enough resources to retain this many, it will retain as many as
      possible. Regardless of this value, the agent must attempt to
      keep records for all current transactions it is monitoring.

      The value of this object must persist across reboots."
  ::= { apmMibObjects 12 }

-- The APM Exception table
-- The APM Exception Table creates filters so that a management
-- station can get immediate notification of a transaction that has
-- had poor availability or responsiveness.
--
```

```
-- This function is particularly helpful in unaggregated situations
-- where the numbers of agents is relatively high and the transaction
-- rate per agent is relatively low (such as agents for desktops or
-- dedicated to small workgroups). Polling agents in such an
-- environment would either cause scalability problems (high rate) or
-- lead to long notification delays (low rate).


apmExceptionTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmExceptionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table creates filters so that a management station can
     get immediate notification of a transaction that has had poor




     availability or responsiveness.

     Each apmExceptionEntry is associated with a particular type of
     transaction and is applied to all transactions of that
     type. Multiple apmExceptionEntries may be associated with a
     particular type of transaction. A transaction type is
     identified by the value of the apmAppDirAppLocalIndex
     component of the index.

     Because the quality of a transaction is not known until it is
     completed, these thresholds are only applied after the
     transaction has completed."
  ::= { apmMibObjects 13 }

apmExceptionEntry OBJECT-TYPE
  SYNTAX      ApmExceptionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the apmExceptionTable.

     The apmAppDirAppLocalIndex value in the index identifies
     the application this entry will monitor.
     The apmAppDirResponsivenessType value in the index
     identifies the type of responsiveness metric this entry will
     monitor."

  INDEX { apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType, apmExceptionIndex }
```

```
  ::= { apmExceptionTable 1 }

ApmExceptionEntry ::= SEQUENCE {
  apmExceptionIndex                    Unsigned32,
  apmExceptionResponsivenessComparison    INTEGER,
  apmExceptionResponsivenessThreshold     Unsigned32,
  apmExceptionUnsuccessfulException       INTEGER,
  apmExceptionResponsivenessEvents        Counter32,
  apmExceptionUnsuccessfulEvents          Counter32,
  apmExceptionOwner                    OwnerString,
  apmExceptionStorageType                 StorageType,
  apmExceptionStatus                   RowStatus
}

apmExceptionIndex
 OBJECT-TYPE
  SYNTAX      Unsigned32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION



     "An index that uniquely identifies an entry in the
     apmExceptionTable amongst other entries with equivalent index
     values for apmAppDirAppLocalIndex and
     apmAppDirResponsivenessType. Each such entry sets up
     thresholds for a particular measurement of a particular
     application."
  ::= { apmExceptionEntry 1 }

apmExceptionResponsivenessComparison OBJECT-TYPE
  SYNTAX      INTEGER {
                 none(1),
                 greater(2),
                 less(3)
              }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "If this value is greater(2) or less(3), the associated
     apmExceptionResponsivenessThreshold will be compared to this
     value and an exception will be created if the responsiveness
     is greater than the threshold (greater(2)) or less than the
      threshold (less(3))."
  ::= { apmExceptionEntry 2 }

apmExceptionResponsivenessThreshold OBJECT-TYPE
```

```
  SYNTAX      Unsigned32
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The threshold that responsiveness metrics are compared to."
  ::= { apmExceptionEntry 3 }

apmExceptionUnsuccessfulException OBJECT-TYPE
  SYNTAX      INTEGER {
                 off(1),
                 on(2)
              }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "If this value is on(2), an exception will be created if a
     transaction of the associated type is unsuccessful."
  ::= { apmExceptionEntry 4 }

apmExceptionResponsivenessEvents OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current



  DESCRIPTION
     "The total number of responsiveness exceptions generated. This
     counter will be incremented even if no notification was sent
     due to notifications not being
 configured or due to exceeding
     the apmNotificationMaxRate value."
  ::= { apmExceptionEntry 5 }

apmExceptionUnsuccessfulEvents OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of unsuccessful exceptions generated. This
     counter will be incremented even if no notification was sent
     due to notifications not being configured or due to exceeding
     the apmNotificationMaxRate value."
  ::= { apmExceptionEntry 6 }

apmExceptionOwner OBJECT-TYPE
  SYNTAX      OwnerString
  MAX-ACCESS  read-create
```

```
  STATUS      current
  DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
  ::= { apmExceptionEntry 7 }

apmExceptionStorageType OBJECT-TYPE
  SYNTAX     StorageType
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
      "The storage type of this apmReportControlEntry. If the value

   of this object is 'permanent', no objects in this row need to
      be writable."
  ::= { apmExceptionEntry 8 }

apmExceptionStatus OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
      "The status of this apmExceptionEntry. The only objects in the
      entry that may be modified while the entry is in the active
      state are apmExceptionResponsivenessComparison,
      apmExceptionResponsivenessThreshold and
      apmExceptionUnsuccessfulException."
  ::= { apmExceptionEntry 9 }



apmThroughputExceptionMinTime OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "Because the responsiveness for throughput-oriented
      transactions is divided by the elapsed time, it can be very
      sensitive to short-term performance variations for
      transactions that take a short period of time. For example,
      when downloading
 a very short file, a single dropped packet
      could double or triple the total response time.

      Further, throughput is usually examined for applications that
      transfer a lot of data, and when doing so it is helpful to
      conceptualize transaction costs that are proportional to the
```

```
      amount of data separately from those costs that are relatively
      fixed (i.e., independent of the amount of data).  For very
      short transactions, these fixed transaction costs (handshake,
      setup time, authentication, round-trip time) may dominate the
      total response time for the transaction, resulting in
      throughput measurements that aren't really proportional to the
      network's, server's and client's combined data throughput
      capability.

      This object controls the minimum number of seconds that an
      throughput-based transaction must exceed before an exception
      can be generated for it. If this object is set
 to zero, then
      all throughput-based transactions are candidates for
      exceptions.

      The value of this object must persist across reboots."
  DEFVAL     { 10 }
  ::= { apmMibObjects 14 }

apmNotificationMaxRate OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "The maximum number of notifications that can be generated
      from this agent by the apmExceptionTable in any 60 second
      period.

      The value of this object must persist across reboots."
  DEFVAL { 1 }
  ::= { apmMibObjects 15 }




-- APM Notifications

apmNotifications OBJECT IDENTIFIER ::= { apm 0 }

apmTransactionResponsivenessAlarm NOTIFICATION-TYPE
  OBJECTS     { apmExceptionResponsivenessThreshold,
                apmTransactionResponsiveness }
  STATUS      current
  DESCRIPTION
      "Notification sent when a transaction exceeds a threshold
      defined in the apmException table. The index of the
```

```
      included apmExceptionResponsivenessThreshold object identifies
      the apmExceptionEntry that specified the threshold. The
      apmTransactionResponsiveness variable identifies the actual
      transaction and its responsiveness.

      Agent implementors are urged to include additional data
      objects in the alarm that may explain the reason for the
      alarm. It is helpful to include such data in the alarm because
      it describes the situation at the time the alarm was
      generated, where polls after the fact may not provide
      meaningful information. Examples of such information are CPU
      load, memory utilization, network utilization, and transaction
      statistics."
  ::= { apmNotifications 1 }

apmTransactionUnsuccessfulAlarm NOTIFICATION-TYPE
  OBJECTS     { apmExceptionResponsivenessThreshold }
  STATUS      current
  DESCRIPTION
     "Notification sent when a transaction is unsuccessful.
     The index of the included
 apmExceptionResponsivenessThreshold
     object identifies both the type of the transaction that caused
     this notification as well as the apmExceptionEntry that
     specified the threshold.

     Agent implementors are urged to include additional data
     objects in the alarm that may explain the reason for the
     alarm. It is helpful to include such data in the alarm because
     it describes the situation at the time the alarm was
     generated, where polls after the fact may not provide
     meaningful information. Examples of such information are CPU
     load, memory utilization, network utilization, and transaction
     statistics."
  ::= { apmNotifications 2 }

apmCompliance MODULE-COMPLIANCE
  STATUS  current



  DESCRIPTION
     "Describes the requirements for conformance to
     the APM MIB"
  MODULE  -- this module
     MANDATORY-GROUPS { apmAppDirGroup, apmReportGroup }

     GROUP apmUserDefinedApplicationsGroup
```

```
        DESCRIPTION
          "Implementation of the apmUserDefinedApplicationsGroup
          is optional."

      GROUP apmTransactionGroup
       DESCRIPTION
          "Implementation of the apmTransactionGroup is optional."

      GROUP apmExceptionGroup
       DESCRIPTION
          "Implementation of the apmExceptionGroup is optional."

      GROUP apmNotificationGroup
       DESCRIPTION
          "Implementation of the apmNotificationGroup is optional."

  ::= { apmCompliances 1 }

apmAppDirGroup OBJECT-GROUP
  OBJECTS { apmAppDirConfig,
            apmAppDirResponsivenessBoundary1,
            apmAppDirResponsivenessBoundary2,
            apmAppDirResponsivenessBoundary3,
            apmAppDirResponsivenessBoundary4,
            apmAppDirResponsivenessBoundary5,
            apmAppDirResponsivenessBoundary6,
            apmBucketBoundaryLastChange, apmAppDirID,
            apmNameMachineName, apmNameUserName }
  STATUS
 current
  DESCRIPTION
     "The APM MIB directory of applications and application verbs."
  ::=  { apmGroups 1 }

apmUserDefinedApplicationsGroup OBJECT-GROUP
  OBJECTS {     apmHttpFilterAppLocalIndex,
                apmHttpFilterServerProtocol,
                apmHttpFilterServerAddress, apmHttpFilterURLPath,
                apmHttpFilterMatchType, apmHttpFilterOwner,
                apmHttpFilterStorageType, apmHttpFilterRowStatus,
                apmHttpIgnoreUnregisteredURLs, apmHttp4xxIsFailure,
                apmUserDefinedAppParentIndex,



                apmUserDefinedAppApplication }
  STATUS  current
  DESCRIPTION
```

```
      "Objects used for creating and managing user-defined
      applications."
   ::= { apmGroups 2 }

apmReportGroup OBJECT-GROUP
   OBJECTS { apmReportControlDataSource,
             apmReportControlAggregationType,
             apmReportControlInterval,
             apmReportControlRequestedSize,
             apmReportControlGrantedSize,
              apmReportControlRequestedReports,
             apmReportControlGrantedReports,
             apmReportControlStartTime,
             apmReportControlReportNumber,
             apmReportControlDeniedInserts,
             apmReportControlDroppedFrames,
             apmReportControlOwner,
             apmReportControlStorageType,
             apmReportControlStatus,
             apmReportTransactionCount,
             apmReportSuccessfulTransactions,
             apmReportResponsivenessMean,
             apmReportResponsivenessMin,
             apmReportResponsivenessMax,
             apmReportResponsivenessB1,
             apmReportResponsivenessB2,
             apmReportResponsivenessB3,
             apmReportResponsivenessB4,
             apmReportResponsivenessB5,
             apmReportResponsivenessB6,
             apmReportResponsivenessB7 }
   STATUS  current
   DESCRIPTION
      "The apm report group controls the creation
 and retrieval of
      reports that aggregate application performance."
   ::=  { apmGroups 3 }

apmTransactionGroup OBJECT-GROUP
   OBJECTS { apmTransactionResponsiveness,
             apmTransactionAge, apmTransactionSuccess,
             apmTransactionsRequestedHistorySize }
   STATUS  current
   DESCRIPTION
      "The apm transaction group contains statistics for
      individual transactions."
```

```
  ::=  { apmGroups 4 }

apmExceptionGroup OBJECT-GROUP
  OBJECTS { apmExceptionResponsivenessComparison,
            apmExceptionResponsivenessThreshold,
            apmExceptionUnsuccessfulException,
            apmExceptionResponsivenessEvents,
            apmExceptionUnsuccessfulEvents,
            apmExceptionOwner, apmExceptionStorageType,
            apmExceptionStatus, apmThroughputExceptionMinTime,
            apmNotificationMaxRate }
  STATUS  current
  DESCRIPTION
      "The apm exception group causes notifications to be sent
      whenever
 transactions are detected that had poor availability
      or responsiveness."
  ::=  { apmGroups 5 }

apmNotificationGroup NOTIFICATION-GROUP
  NOTIFICATIONS { apmTransactionResponsivenessAlarm,
                  apmTransactionUnsuccessfulAlarm }
  STATUS        current
  DESCRIPTION
      "Notifications sent by an APM MIB agent."
  ::= { apmGroups 6 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB
No license file was found, but licenses were detected in source scan.

DOCS-IF-MIB DEFINITIONS ::= BEGIN

 IMPORTS
   MODULE-IDENTITY,
   OBJECT-TYPE,
   Unsigned32,
   Integer32,
   Counter32,
   Counter64,
   TimeTicks,
   IpAddress,
   transmission
         FROM SNMPv2-SMI       -- [RFC2578]
   TEXTUAL-CONVENTION,
```

```
    MacAddress,
    RowStatus,
    TruthValue,
    TimeInterval,
    TimeStamp,
    StorageType
        FROM SNMPv2-TC        -- [RFC2579]
    OBJECT-GROUP,

    MODULE-COMPLIANCE
        FROM SNMPv2-CONF      -- [RFC2580]
    ifIndex, InterfaceIndexOrZero
        FROM IF-MIB           -- [RFC2863]
    InetAddressType,
    InetAddress
        FROM INET-ADDRESS-MIB  -- [RFC4001]
    IANAifType
        FROM IANAifType-MIB;   -- [IANA]

docsIfMib MODULE-IDENTITY
    LAST-UPDATED    "200605240000Z" -- May 24, 2006
    ORGANIZATION    "IETF IPCDN Working Group"
    CONTACT-INFO



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        Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
        Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
        Co-chairs: Richard Woundy, Richard_Woundy@cable.comcast.com
```

```
                Jean-Francois Mule, jf.mule@cablelabs.com"
    DESCRIPTION
        "This is the MIB Module for DOCSIS 2.0-compliant Radio

     Frequency (RF) interfaces in Cable Modems and
        Cable Modem Termination Systems.

        Copyright (C) The Internet Society (2006).  This
        version of this MIB module is part of RFC 4546; see
        the RFC itself for full legal notices."

    REVISION        "200605240000Z"
    DESCRIPTION
        "Revision of the IETF RF MIB module for DOCSIS 2.0.
        This version published as RFC 4546.
        This MIB module revision includes the following
        among others:
        Usage of ifType (205) for upstream logical channels.
        Addition of downstream and upstream utilization
        counters.
        Additional statistics per upstream interface.
        Upstream channel offline configuration mechanism.
        Added MIB support for new DOCSIS 2.0 modulation
        attributes.
        Euro-DOCSIS downstream interleave values.
        Adjustments to RFC 2670 definitions based on
        the MIB review guidelines from the IETF



         Operations and Management Area (OPS)."

    REVISION "199908190000Z"
    DESCRIPTION
        "Initial version, published as RFC 2670.
        Modified by Mike St. Johns to fix problems identified by
        the first pass of the MIB doctor.  Of special note,
        docsIfRangingResp and docsIfCmtsInsertionInterval were
        obsoleted and replaced by other objects with the same
        functionality, but with more appropriate syntax."
    ::= { transmission 127 }


-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS       current
```

```
    DESCRIPTION
        "This data type represents power levels that are normally
         expressed in dBmV.  Units are in tenths of a dBmV;
         for example, 5.1 dBmV will be represented as 51."
    SYNTAX       Integer32

TenthdB ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS       current
    DESCRIPTION
        "This data type represents power levels that are
 normally
         expressed in dB.  Units are in tenths of a dB;
         for example, 5.1 dB will be represented as 51."
    SYNTAX       Integer32

DocsisVersion ::= TEXTUAL-CONVENTION
   STATUS         current
   DESCRIPTION
       "Indicates the DOCSIS Radio Frequency specification being
        referenced.
        'docsis10' indicates DOCSIS 1.0.
        'docsis11' indicates DOCSIS 1.1.
        'docsis20' indicates DOCSIS 2.0."
   SYNTAX       INTEGER {
        docsis10 (1),
        docsis11 (2),
        docsis20 (3)
   }

DocsisQosVersion ::= TEXTUAL-CONVENTION




   STATUS         current
   DESCRIPTION
       "Indicates the referenced quality-of-service
        level.
        'docsis10 refers to DOCSIS 1.0 Class of
        Service queuing services, and 'docsis11' refers
        to DOCSIS 1.1 Quality of Service."
   SYNTAX       INTEGER {
       docsis10 (1),
       docsis11 (2)
   }

DocsisUpstreamType ::= TEXTUAL-CONVENTION
   STATUS         current
```

```
    DESCRIPTION
        "Indicates the DOCSIS Upstream Channel Type.
         'unknown' means information not available.
         'tdma' is related to TDMA, Time Division
         Multiple Access; 'atdma' is related to A-TDMA,
         Advanced Time Division Multiple Access,
         'scdma' is related to S-CDMA, Synchronous
         Code Division Multiple Access.
         'tdmaAndAtdma is related to simultaneous support of
         TDMA and A-TDMA modes."
    SYNTAX          INTEGER {
        unknown(0),
        tdma(1),
        atdma(2),
        scdma(3),
        tdmaAndAtdma(4)
    }

DocsEqualizerData ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
        "This data type represents the equalizer data
         as measured at the receiver interface.
         The format of the equalizer follows the structure of the
         Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI
         v2.0 :
         1 byte Main tap location 1..(n + m)
          1 byte Number of forward taps per symbol
         1 byte Number of forward taps: n
         1 byte Number of reverse taps: m

         Following are the equalizer coefficients:
         First, forward taps coefficients:
         2 bytes F1 (real),  2 bytes  F1 (imag)




         ...
         2 bytes Fn (real),  2 bytes  Fn (imag)

         Then, reverse taps coefficients:
         2 bytes D1 (real),  2 bytes  D1 (imag)
         ...

         2 bytes Dm (real),  2 bytes  Dm (imag)

         The equalizer coefficients are considered signed 16-bit
         integers in the range from -32768 (0x8000) to 32767
```

```
        (0x7FFF).

        DOCSIS specifications require up to a maximum of
        64 equalizer taps (n + m); therefore, this object size
         can get up 260 bytes (4 + 4x64).
        The minimum object size (other than zero) for a t-spaced
        tap with a minimum of 8 symbols will be 36 (4 + 4x8)."
    REFERENCE

  "Data-Over-Cable Service Interface Specifications: Radio
      Frequency Interface Specification SP-RFIv2.0-I10-051209,
      Figure 8-23."
    SYNTAX      OCTET STRING(SIZE (0 | 36..260))


docsIfMibObjects  OBJECT IDENTIFIER ::= { docsIfMib 1 }
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }
docsIfCmObjects   OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }

--
-- BASE GROUP
--

--
-- The following table is implemented on both the Cable Modem
-- and the Cable Modem Termination System.  This table is
-- read only for the CM.
--

docsIfDownstreamChannelTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfDownstreamChannelEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table describes the attributes of downstream
       channels (frequency bands)."
   REFERENCE



      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface
 Specification SP-RFIv2.0-I10-051209,
       Tables 6-16, and 6-17."
   ::= { docsIfBaseObjects 1 }

docsIfDownstreamChannelEntry OBJECT-TYPE
```

```
    SYNTAX      DocsIfDownstreamChannelEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry provides a list of attributes for a single
         downstream channel.
         An entry in this table exists for each ifEntry with an
         ifType of docsCableDownstream(128)."
    INDEX { ifIndex }
    ::= { docsIfDownstreamChannelTable 1 }

DocsIfDownstreamChannelEntry ::= SEQUENCE {
        docsIfDownChannelId             Integer32,
        docsIfDownChannelFrequency      Integer32,
        docsIfDownChannelWidth          Integer32,
        docsIfDownChannelModulation     INTEGER,
        docsIfDownChannelInterleave     INTEGER,
        docsIfDownChannelPower          TenthdBmV,
        docsIfDownChannelAnnex          INTEGER,
        docsIfDownChannelStorageType
      StorageType
    }

docsIfDownChannelId OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Cable Modem Termination System identification of the
         downstream channel within this particular MAC interface.
         if the interface is down, the object returns the most
         current value.  If the downstream channel ID is unknown,
         this object returns a value of 0."
    ::= { docsIfDownstreamChannelEntry 1 }

docsIfDownChannelFrequency OBJECT-TYPE
    SYNTAX      Integer32 (0..1000000000)
    UNITS       "hertz"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The center of the downstream frequency associated with
         this channel.  This object will return the current tuner




         frequency.  If a CMTS provides IF output, this object
         will return 0, unless this CMTS is in control of the
```

```
        final downstream frequency.  See
 the associated
        compliance object for a description of valid frequencies
        that may be written to this object."

    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.3.3."
    ::= { docsIfDownstreamChannelEntry 2 }

docsIfDownChannelWidth OBJECT-TYPE
    SYNTAX      Integer32 (0..16000000)
    UNITS       "hertz"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The bandwidth of this downstream channel.  Most
        implementations are expected to support a channel width
        of 6 MHz (North America) and/or 8 MHz (Europe).  See the
        associated compliance object for a description of the
        valid channel widths for this object."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-17."

 ::= { docsIfDownstreamChannelEntry 3 }

docsIfDownChannelModulation OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(1),
        other(2),
        qam64(3),
        qam256(4)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The modulation type associated with this downstream
        channel.  If the interface is down, this object either
        returns the configured value (CMTS), the most current
        value (CM), or the value of unknown(1).  See the
        associated conformance object for write conditions and
        limitations.  See the reference for specifics on the
        modulation profiles implied by qam64 and qam256."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-17."
    ::= { docsIfDownstreamChannelEntry 4 }

docsIfDownChannelInterleave OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(1),
        other(2),
        taps8Increment16(3),
        taps16Increment8(4),
        taps32Increment4(5),
        taps64Increment2(6),
        taps128Increment1(7),
        taps12increment17(8)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The Forward Error Correction (FEC) interleaving used
        for this downstream channel.
        Values are defined as follows:
        taps8Increment16(3):   protection 5.9/4.1 usec,
                               latency .22/.15 msec
        taps16Increment8(4):   protection 12/8.2 usec,
                               latency .48/.33 msec
        taps32Increment4(5):   protection 24/16 usec,
                               latency .98/.68 msec
        taps64Increment2(6):   protection 47/33 usec,
                               latency 2/1.4 msec
        taps128Increment1(7):  protection 95/66 usec,
                               latency 4/2.8 msec
        taps12increment17(8):
  protection 18/14 usec,
                               latency 0.43/0.32 msec

       The value 'taps12increment17' is supported by EuroDOCSIS
       cable systems only, and the others by DOCSIS cable systems.

        If the interface is down, this object either returns
        the configured value (CMTS), the most current value (CM),
        or the value of unknown(1).
        The value of other(2) is returned if the interleave
        is known but not defined in the above list.
        See the associated conformance object for write
        conditions and limitations.  See the reference for the FEC
```

```
        configuration described by the setting of this object."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,




        Table 6-15."
    ::= { docsIfDownstreamChannelEntry 5 }

docsIfDownChannelPower OBJECT-TYPE
    SYNTAX      TenthdBmV
    UNITS
  "dBmV"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "At the CMTS, the operational transmit power.  At the CM,
        the received power level.
        If the interface is down, this object either returns
        the configured value (CMTS), the most current value (CM)
        or the value of 0.  See the associated conformance object
        for write conditions and limitations.  See the reference
        for recommended and required power levels."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-16, 6-17."
    ::= { docsIfDownstreamChannelEntry 6 }

docsIfDownChannelAnnex OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(1),
        other(2),
        annexA(3),
        annexB(4),
        annexC(5)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of this object indicates
 the conformance of
        the implementation to important regional cable standards.
        annexA : Annex A from ITU-T J.83 is used.
                (equivalent to EN 300 429)
        annexB : Annex B from ITU-T J.83 is used.
        annexC : Annex C from ITU-T J.83 is used."
```

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.3.1, and H.3.1."
    ::= { docsIfDownstreamChannelEntry 7 }

docsIfDownChannelStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-only



    STATUS      current
    DESCRIPTION
        "The storage type for this conceptual row.
        Entries with this object set to permanent(4)
        do not require write operations for read-write
        objects."
    ::= { docsIfDownstreamChannelEntry 8 }

--
-- The following table is implemented on both the CM and the CMTS.
-- For the CM, only attached channels
 appear in the table.  For the
-- CM, this table is read-only as well.
--

docsIfUpstreamChannelTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfUpstreamChannelEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table describes the attributes of attached upstream
        channels."
    ::= { docsIfBaseObjects 2 }

docsIfUpstreamChannelEntry OBJECT-TYPE
    SYNTAX      DocsIfUpstreamChannelEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of attributes for a single upstream channel.  For
        DOCSIS 2.0 CMTSs, an entry in this table exists for
        each ifEntry with an ifType of docsCableUpstreamChannel
        (205).
        For DOCSIS 1.x CM/CMTSs and DOCSIS 2.0 CMs, an entry in
        this table exists for each ifEntry with an ifType of
        docsCableUpstream (129).
```

For DOCSIS 2.0 CMTSs, two classes of interfaces can be
defined for this table:
o Upstream Physical Interfaces: The traditional DOCSIS
1.x CMTS upstream interface ifType 129 and the DOCSIS
2.0 ifType 205 that are functional. In other words,
interfaces that represent upstream receivers within
an RF MAC interface.
Entries of physical interfaces are exposed to the
management interface with their corresponding
ifStack hierarchy and are not administratively
created by this table.

o Upstream Temporary Interfaces: A fictitious
interface created for the purpose of manipulating
physical interface parameters offline, then
validating prior to updating the target physical
interface.

In case of a reinitialization of the managed system,
physical interfaces values persist while the temporary
interfaces are not recreated.

This mechanism helps to minimize
service disruptions
originating in situations where a group of interface
parameter values need to be consistent with each other
in SET operations. A temporary buffer
(temporary interface) is provided to allow the CMTS
to validate the parameters offline."
INDEX { ifIndex }
::= { docsIfUpstreamChannelTable 1 }

DocsIfUpstreamChannelEntry ::= SEQUENCE {
docsIfUpChannelId Integer32,
docsIfUpChannelFrequency Integer32,
docsIfUpChannelWidth Integer32,
docsIfUpChannelModulationProfile Unsigned32,
docsIfUpChannelSlotSize Unsigned32,
docsIfUpChannelTxTimingOffset Unsigned32,
docsIfUpChannelRangingBackoffStart Integer32,
docsIfUpChannelRangingBackoffEnd Integer32,
docsIfUpChannelTxBackoffStart Integer32,
docsIfUpChannelTxBackoffEnd Integer32,

```
      docsIfUpChannelScdmaActiveCodes       Unsigned32,
      docsIfUpChannelScdmaCodesPerSlot      Integer32,
      docsIfUpChannelScdmaFrameSize         Unsigned32,
      docsIfUpChannelScdmaHoppingSeed       Unsigned32,
      docsIfUpChannelType                   DocsisUpstreamType,
      docsIfUpChannelCloneFrom              InterfaceIndexOrZero,
      docsIfUpChannelUpdate                 TruthValue,
      docsIfUpChannelStatus                 RowStatus,
      docsIfUpChannelPreEqEnable            TruthValue
   }

docsIfUpChannelId OBJECT-TYPE
   SYNTAX      Integer32 (0..255)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The CMTS identification of the upstream channel."
   ::= { docsIfUpstreamChannelEntry 1 }



docsIfUpChannelFrequency OBJECT-TYPE
   SYNTAX      Integer32 (0..1000000000)
   UNITS       "hertz"
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The center of the frequency
 band associated with this
       upstream interface.  This object returns 0 if the frequency
       is undefined or unknown.  Minimum permitted upstream
       frequency is 5,000,000 Hz for current technology.  See
       the associated conformance object for write conditions
       and limitations."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Table 4-2."
   ::= { docsIfUpstreamChannelEntry 2 }

docsIfUpChannelWidth OBJECT-TYPE
   SYNTAX      Integer32 (0..64000000)
   UNITS       "hertz"
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The bandwidth of this upstream interface.  This object
       returns 0 if the interface width is undefined or unknown.
```

```
        Minimum permitted interface width is currently 200,000 Hz.
        See the associated conformance object for write conditions
        and limitations."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-5."
    ::= { docsIfUpstreamChannelEntry 3 }

docsIfUpChannelModulationProfile OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       "An entry identical to the docsIfModIndex in the
        docsIfCmtsModulationTable that describes this channel.
        This channel is further instantiated there by a grouping
        of interval usage codes (IUCs) that, together, fully
        describe the channel modulation.  This object returns 0 if
        the docsIfCmtsModulationTable entry does not exist or is
        empty.  See the associated conformance object for write
        conditions and limitations.



        Setting this object returns an 'inconsistentValue'
        error if the following conditions are not satisfied:
        1. All the
    IUC entries in the selected modulation profile
        MUST have the same value of docsIfCmtsModChannelType.
        2. All of the Modulation parameters in the selected
        modulation profile MUST be consistent with the other
        parameters in this docsIfUpstreamChannelEntry."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 8-19."
    ::= { docsIfUpstreamChannelEntry 4 }

docsIfUpChannelSlotSize OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "ticks"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       "Applicable to TDMA and ATDMA channel types only.
        The number of 6.25 microsecond ticks in each upstream
        mini-slot.  Returns zero if the value is undefined or
```

```
        unknown or in case of an SCDMA channel.
        See the associated conformance object for write
        conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.1.2.4."
    ::= { docsIfUpstreamChannelEntry 5 }

docsIfUpChannelTxTimingOffset OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "At the CM, a measure of the current round trip time
        obtained from the ranging offset (initial ranging offset +
        ranging offset adjustments).
        At the CMTS, the maximum of timing offset, among all the
        CMs that are/were present on the channel, taking into
        account all ( initial + periodic ) timing offset
        corrections that were sent for each of the CMs.  Generally,
        these measurements are positive, but if the measurements
        are negative, the value of this object is zero.  Used for
        timing of CM upstream transmissions to ensure synchronized

      arrivals at the CMTS.
        Units are one 64th fraction of 6.25 microseconds."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.19."
    ::= { docsIfUpstreamChannelEntry 6 }

docsIfUpChannelRangingBackoffStart OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The initial random backoff window to use when retrying
        Ranging Requests.  Expressed as a power of 2.  A value of
        16 at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry
 7 }

docsIfUpChannelRangingBackoffEnd OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The final random backoff window to use when retrying
        Ranging Requests.  Expressed as a power of 2.  A value of
        16 at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 8 }

docsIfUpChannelTxBackoffStart OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The initial random backoff window to use when retrying
        transmissions.  Expressed as a power of 2.  A value of 16

       at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 9 }

docsIfUpChannelTxBackoffEnd OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The final random backoff window to use when retrying
        transmissions.  Expressed as a power of 2.  A value of 16
```

```
        at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification
 SP-RFIv2.0-I10-051209,
        Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 10 }

docsIfUpChannelScdmaActiveCodes OBJECT-TYPE
    SYNTAX     Unsigned32 (0|64..66|68..70|72|74..78|80..82|84..88
                      |90..96|98..100|102|104..106|108
                      |110..112|114..126|128)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
       "Applicable for SCDMA channel types only.
        Number of active codes.  Returns zero for
        Non-SCDMA channel types.  Note that legal
        values from 64..128 MUST be non-prime."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.11.2.1."
    ::= { docsIfUpstreamChannelEntry 11 }

docsIfUpChannelScdmaCodesPerSlot OBJECT-TYPE
    SYNTAX      Integer32(0 | 2..32)
    UNITS       "codesperMinislots"
    MAX-ACCESS  read-create
    STATUS      current
     DESCRIPTION
       "Applicable for SCDMA channel types only.
        The number of SCDMA codes per mini-slot.
        Returns zero if the value is undefined or unknown or in




        case of a TDMA or ATDMA channel."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.11.2.1."
    ::= { docsIfUpstreamChannelEntry 12 }

docsIfUpChannelScdmaFrameSize OBJECT-TYPE
    SYNTAX      Unsigned32 (0..32)
```

```
    UNITS       "spreadIntervals"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Applicable for SCDMA channel types only.
         SCDMA Frame size in units of spreading intervals.
         This value returns zero for non-SCDMA Profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.12."
    ::= {
 docsIfUpstreamChannelEntry 13 }

docsIfUpChannelScdmaHoppingSeed OBJECT-TYPE
    SYNTAX     Unsigned32 (0..32767)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
        "Applicable for SCDMA channel types only.
         15-bit seed used for code hopping sequence initialization.
         Returns zero for non-SCDMA channel types.
         Setting this value to a value different than zero for
         non-SCDMA channel types returns the error 'wrongValue'."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.14.1."
    ::= { docsIfUpstreamChannelEntry 14 }

docsIfUpChannelType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Reflects the Upstream channel type.
         This object returns the value of docsIfCmtsModChannelType
         for the modulation profile selected
 in
         docsIfUpChannelModulationProfile for this row."
    REFERENCE



        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.1."
    ::= { docsIfUpstreamChannelEntry 15 }
```

```
docsIfUpChannelCloneFrom OBJECT-TYPE
   SYNTAX      InterfaceIndexOrZero
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "This object contains the ifIndex value of the physical
       interface row entry whose parameters are to be adjusted.

       Upon setting this object to the ifIndex value of a
       physical interface, the following interface objects values
       are copied to this entry:
       docsIfUpChannelFrequency,
       docsIfUpChannelWidth,
       docsIfUpChannelModulationProfile,
       docsIfUpChannelSlotSize,
       docsIfUpChannelRangingBackoffStart,
       docsIfUpChannelRangingBackoffEnd,
       docsIfUpChannelTxBackoffStart,
        docsIfUpChannelTxBackoffEnd,
       docsIfUpChannelScdmaActiveCodes,
       docsIfUpChannelScdmaCodesPerSlot,
       docsIfUpChannelScdmaFrameSize,
       docsIfUpChannelScdmaHoppingSeed,
       docsIfUpChannelType, and
       docsIfUpChannelPreEqEnable
       Setting this object to the value of a non-existent or
       a temporary upstream interface returns the error
       'wrongValue'.
       This object MUST contain a value of zero for physical
       interfaces entries.
       Setting this object in row entries that correspond to
       physical interfaces returns the error 'wrongValue'."
   ::= { docsIfUpstreamChannelEntry 16 }

docsIfUpChannelUpdate OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "Used to perform the copy of adjusted parameters from the
       temporary interface entry to the physical interface
       indicated by the docsIfUpChannelCloneFrom
 object.  The
       transfer is initiated through an SNMP SET to 'true' of
```

this object.
A SET to 'true' fails and returns error 'commitFailed'
if docsIfUpChannelStatus value is 'notInService', which
means that the interface parameters values are not
compatible with each other or have not been validated yet.
Reading this object always returns 'false'."
::= { docsIfUpstreamChannelEntry 17 }

docsIfUpChannelStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object is only used for the creation of a temporary
upstream row with the purpose of updating the parameters
of a physical upstream channel entry.

The following restrictions apply to this object:
1. This object is not writable for physical interfaces.
2. Temporary interface entries are only created by a SET

of this object to createandWait(5).
3. ifAdminStatus from the Interface MIB RFC 2863 is used
to take a physical upstream channel offline, to be
consistent with DOCSIS 1.x operation, as indicated in
RFC 2670.
In addition,
o ifAdminStatus 'down' is reflected in this object
as 'notInService'.
o ifOperStatus 'down' while ifAdminStatus 'up' is
reflected in this object as 'notInservice'.
4. Temporary created rows MUST be set to 'active' with
the purpose of validating upstream parameter
consistency prior to transferring the parameters to the
physical interface.

Below is a mandatory procedure for adjusting the values
of a physical interface:
1. Create a temporary interface entry through an SNMP SET
using 'createAndWait'. At this point, the RowStatus
reports 'notReady'.
The Manager entity uses an ifIndex value outside the
operational range of the physical interfaces for the
creation of a temporary interface.
2. Set the docsIfUpChannelCloneFrom object to the ifIndex
value of the physical row to update. Now
docsIfUpChannelStatus reports 'notInService'.
3. Change the upstream parameters to the desired values

```
            in the temporary row.



          4. Validate that all parameters are consistent by setting
             docsIfUpChannelStatus to 'active'.  A failure to set the
             RowStatus to 'active' returns the error 'commitFailed',
             which means the parameters are not compatible with the
             target physical interface.
          5. With docsIfUpChannelStatus 'active', transfer the
             parameters to the target physical interface by setting
             the object docsIfUpChannelUpdate to 'true'.
          6. Delete the temporary
 row by setting
             docsIfUpChannelStatus to 'destroy'."
    ::= { docsIfUpstreamChannelEntry 18 }

docsIfUpChannelPreEqEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "At the CMTS, this object is used to enable or disable
        pre-equalization on the upstream channel represented by
        this table instance.  At the CM, this object is read-only
        and reflects the status of pre-equalization as represented
        in the RNG-RSP.  Pre-equalization is considered enabled at
        the CM if a RNG-RSP with pre-equalization data has been
        received at least once since the last mac
        reinitialization."
    DEFVAL {false}
    ::= { docsIfUpstreamChannelEntry 19 }

-- The following table describes the attributes of each class of
-- service.  The entries in this table are referenced from the
-- docsIfServiceEntries.  They exist as a separate table in order to
--
 reduce redundant information in docsIfServiceTable.
--
-- This table is implemented at both the CM and the CMTS.
-- The CM need only maintain entries for the classes of service
-- referenced by its docsIfCmServiceTable.
--

docsIfQosProfileTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfQosProfileEntry
    MAX-ACCESS  not-accessible
    STATUS      current
```

```
    DESCRIPTION
        "Describes the attributes for each class of service."
    ::= { docsIfBaseObjects 3 }

docsIfQosProfileEntry OBJECT-TYPE
    SYNTAX      DocsIfQosProfileEntry



    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes for a single class of service.
        If implemented as read-create in the Cable Modem
        Termination System, creation of entries in this table is
        controlled by the value of
        docsIfCmtsQosProfilePermissions.

        If implemented as read-only, entries are created based
        on information in REG-REQ
 MAC messages received from
        cable modems (for Cable Modem Termination System), or
        based on information extracted from the TFTP option file
        (for Cable Modem).
        In the Cable Modem Termination System, read-only entries
        are removed if no longer referenced by
        docsIfCmtsServiceTable.

        An entry in this table MUST not be removed while it is
        referenced by an entry in docsIfCmServiceTable (Cable
        Modem) or docsIfCmtsServiceTable (Cable Modem Termination
        System).

        An entry in this table SHOULD NOT be changeable while
        it is referenced by an entry in docsIfCmtsServiceTable.

        If this table is created automatically, there SHOULD only
        be a single entry for each Class of Service.  Multiple
        entries with the same Class of Service parameters are NOT
        RECOMMENDED."
    INDEX { docsIfQosProfIndex }
    ::= { docsIfQosProfileTable 1 }

DocsIfQosProfileEntry
 ::= SEQUENCE {
        docsIfQosProfIndex              Integer32,
        docsIfQosProfPriority           Integer32,
        docsIfQosProfMaxUpBandwidth     Integer32,
```

```
        docsIfQosProfGuarUpBandwidth      Integer32,
        docsIfQosProfMaxDownBandwidth     Integer32,
        docsIfQosProfMaxTxBurst           Integer32,  -- deprecated
        docsIfQosProfBaselinePrivacy      TruthValue,
        docsIfQosProfStatus               RowStatus,
        docsIfQosProfMaxTransmitBurst     Integer32,
        docsIfQosProfStorageType          StorageType
    }

docsIfQosProfIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..16383)



    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index value that uniquely identifies an entry
         in the docsIfQosProfileTable."
    ::= { docsIfQosProfileEntry 1 }

docsIfQosProfPriority OBJECT-TYPE
    SYNTAX      Integer32 (0..7)
    MAX-ACCESS  read-create
    STATUS      current

  DESCRIPTION
        "A relative priority assigned to this service when
         allocating bandwidth.  Zero indicates lowest priority
         and seven indicates highest priority.
         Interpretation of priority is device-specific.
         MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 2 }

docsIfQosProfMaxUpBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum upstream bandwidth, in bits per second,
         allowed for a service with this service class.
         Zero if there is no restriction of upstream bandwidth.
```

```
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service
 Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 3 }

docsIfQosProfGuarUpBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Minimum guaranteed upstream bandwidth, in bits per second,




        allowed for a service with this service class.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 4 }

docsIfQosProfMaxDownBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum downstream bandwidth,
 in bits per second,
        allowed for a service with this service class.
        Zero if there is no restriction of downstream bandwidth.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."

    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 5 }

docsIfQosProfMaxTxBurst OBJECT-TYPE
```

```
    SYNTAX      Integer32 (0..255)
    UNITS "mini-slots"
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The maximum number of mini-slots that may be requested
         for a single upstream transmission.
         A value of zero means there is no limit.
         MUST NOT be changed while this row is active.
         This object has been deprecated and replaced by
         docsIfQosProfMaxTransmitBurst, to fix a mismatch
         of the units and value range with respect to
 the DOCSIS
         Maximum Upstream Channel Transmit Burst Configuration
         Setting."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 6 }



docsIfQosProfBaselinePrivacy OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether Baseline Privacy is enabled for this
         service class.
         MUST NOT be changed while this row is active."
    DEFVAL { false }
    ::= { docsIfQosProfileEntry 7 }

docsIfQosProfStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This is object is used to create or delete rows in
         this table.  This object MUST NOT be changed from active
         while the row is referenced by any entry in either
         docsIfCmServiceTable
 (on the CM) or
         docsIfCmtsServiceTable (on the CMTS)."
    ::= { docsIfQosProfileEntry 8 }
```

```
docsIfQosProfMaxTransmitBurst OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)
   UNITS       "bytes"
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The maximum number of bytes that may be requested for a
       single upstream transmission.  A value of zero means there
       is no limit.  Note: This value does not include any
       physical layer overhead.
       MUST NOT be changed while this row is active."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Annex C.1.1.4."
   DEFVAL { 0 }
   ::= { docsIfQosProfileEntry 9 }

docsIfQosProfStorageType OBJECT-TYPE
   SYNTAX       StorageType
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
      "The storage type for this conceptual
 row.
       Entries with this object set to permanent(4)



       do not require write operations for writable
       objects."
   ::= { docsIfQosProfileEntry 10 }

docsIfSignalQualityTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfSignalQualityEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "At the CM, describes the PHY signal quality of downstream
       channels.  At the CMTS, this object describes the PHY
       signal quality of upstream channels.  At the CMTS, this
       table MAY exclude contention intervals."
   ::= { docsIfBaseObjects 4 }

docsIfSignalQualityEntry OBJECT-TYPE
   SYNTAX      DocsIfSignalQualityEntry
   MAX-ACCESS  not-accessible
   STATUS      current
```

```
    DESCRIPTION
        "At the CM, this object describes the PHY characteristics of
         a downstream channel.  At the CMTS, it describes the PHY
         signal quality of an upstream channel.
         An entry in this table exists
  for each ifEntry with an
         ifType of docsCableDownstream(128) for Cable Modems.
         For DOCSIS 1.1 Cable Modem Termination Systems, an entry
         exists for each ifEntry with an ifType of
         docsCableUpstream (129).
         For DOCSIS 2.0 Cable Modem Termination Systems, an entry
         exists for each ifEntry with an ifType of
         docsCableUpstreamChannel (205)."
    INDEX { ifIndex }
    ::= { docsIfSignalQualityTable 1 }

DocsIfSignalQualityEntry ::= SEQUENCE {
        docsIfSigQIncludesContention  TruthValue,
        docsIfSigQUnerroreds          Counter32,
        docsIfSigQCorrecteds          Counter32,
        docsIfSigQUncorrectables      Counter32,
        docsIfSigQSignalNoise         TenthdB,
        docsIfSigQMicroreflections    Integer32,
        docsIfSigQEqualizationData    DocsEqualizerData,
        docsIfSigQExtUnerroreds       Counter64,
        docsIfSigQExtCorrecteds       Counter64,
        docsIfSigQExtUncorrectables
   Counter64
    }

docsIfSigQIncludesContention OBJECT-TYPE



    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "true(1) if this CMTS includes contention intervals in
         the counters in this table.  Always false(2) for CMs."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.4.1"
    ::= { docsIfSignalQualityEntry 1 }

docsIfSigQUnerroreds OBJECT-TYPE
    SYNTAX      Counter32
```

```
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel without error.
         This includes all codewords, whether or not they
         were part of frames destined for this device.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated
 by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 2 }

docsIfSigQCorrecteds OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with correctable
         errors.  This includes all codewords, whether or not
         they were part of frames destined for this device.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency
 Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.2.4, and 6.3.6."



    ::= { docsIfSignalQualityEntry 3 }

docsIfSigQUncorrectables OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with uncorrectable
```

errors. This includes all codewords, whether or not
they were part of frames destined for this device.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Sections 6.2.4, and 6.3.6."
::= { docsIfSignalQualityEntry 4 }

docsIfSigQSignalNoise OBJECT-TYPE
SYNTAX TenthdB
UNITS "TenthdB"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Signal/Noise ratio as perceived for this channel.
At the CM, this object describes the Signal/Noise of the
downstream channel. At the CMTS, it describes the
average Signal/Noise of the upstream channel."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Tables 4-1 and 4-2"
::= { docsIfSignalQualityEntry 5 }

docsIfSigQMicroreflections OBJECT-TYPE
SYNTAX Integer32 (0..255)
UNITS "-dBc"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Microreflections, including in-channel response
as perceived on this interface, measured in dBc below
the signal level.
This object is not assumed to return an absolutely
accurate value, but it gives a rough indication

of microreflections received on this interface.
It is up to the implementer to provide information
as accurately as possible."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,

```
        Tables 4-1 and 4-2"
    ::= { docsIfSignalQualityEntry 6 }

docsIfSigQEqualizationData OBJECT-TYPE
      SYNTAX      DocsEqualizerData
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "At the CM, this object returns the equalization data for
          the downstream channel.

          At the CMTS, this object is not applicable and is not
          instantiated.  Note that previous CMTS implementations
          may instantiate this object in two ways:
          - An equalization value indicating an equalization
            average for the upstream channel.  Those values have
            vendor-dependent
 interpretations.
          - Return a zero-length OCTET STRING to indicate that
            the value is unknown or if there is no equalization
            data available or defined."
      REFERENCE
         "DOCSIS Radio Frequency Interface Specification,
          Figure 6-23."
      ::= { docsIfSignalQualityEntry 7 }


docsIfSigQExtUnerroreds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "Codewords received on this channel without error.
        This includes all codewords, whether or not they
        were part of frames destined for this device.
        This is the 64-bit version of docsIfSigQUnerroreds.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio



        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.2.4, and 6.3.6."
```

```
    ::= { docsIfSignalQualityEntry 8 }

docsIfSigQExtCorrecteds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with correctable
         errors.  This includes all codewords, whether or not
         they were part of frames destined for this device.
         This is the 64-bit version of docsIfSigQCorrecteds.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 9 }

docsIfSigQExtUncorrectables OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with uncorrectable
         errors.  This includes all codewords, whether or not
         they were part of frames destined for this device.
         This is the 64-bit version of docsIfSigQUncorrectables.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.2.4, 6.3.6."
    ::= { docsIfSignalQualityEntry 10 }

--
-- DOCSIS Version of
 the device
--
```

```
docsIfDocsisBaseCapability OBJECT-TYPE
      SYNTAX      DocsisVersion
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "Indication of the DOCSIS capability of the device."
      REFERENCE
         "Data-Over-Cable Service Interface Specifications: Radio
          Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Annex G."
      ::= { docsIfBaseObjects 5 }

--
-- CABLE MODEM GROUP
--

--
-- The CM MAC Table
--

docsIfCmMacTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmMacEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Describes the attributes of each CM MAC interface,
       extending the information available from ifEntry."
   ::= { docsIfCmObjects 1 }

docsIfCmMacEntry OBJECT-TYPE
   SYNTAX      DocsIfCmMacEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An entry containing objects describing attributes
 of
       each MAC entry, extending the information in ifEntry.
       An entry in this table exists for each ifEntry with an
       ifType of docsCableMaclayer(127)."
   INDEX { ifIndex }
   ::= { docsIfCmMacTable 1 }

DocsIfCmMacEntry ::= SEQUENCE {
      docsIfCmCmtsAddress          MacAddress,
      docsIfCmCapabilities         BITS,
      docsIfCmRangingRespTimeout   TimeTicks,
```

```
      docsIfCmRangingTimeout        TimeInterval
    }



docsIfCmCmtsAddress OBJECT-TYPE
   SYNTAX      MacAddress
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Identifies the CMTS that is believed to control this MAC
       domain.  At the CM, this will be the source address from
       SYNC, MAP, and other MAC-layer messages.  If the CMTS is
       unknown, returns 00-00-00-00-00-00."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.2.2."
   ::= { docsIfCmMacEntry 1 }

docsIfCmCapabilities OBJECT-TYPE
   SYNTAX      BITS {
      atmCells(0),
      concatenation(1)
   }
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Identifies the capabilities of the MAC implementation
       at this interface.  Note that packet transmission is
       always supported.  Therefore, there is no specific bit
       required to explicitly indicate this capability.
       Note that BITS objects are encoded most significant bit
       first.  For example, if bit 1 is set, the value of this
       object is the octet string '40'H."
   ::= { docsIfCmMacEntry 2 }

docsIfCmRangingRespTimeout OBJECT-TYPE
   SYNTAX      TimeTicks
   MAX-ACCESS  read-write
   STATUS      obsolete
   DESCRIPTION
      "Waiting time for a Ranging Response packet.
       This object has been obsoleted and replaced by
       docsIfCmRangingTimeout to correct
 the typing to
       TimeInterval."
```

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.1.6."
    DEFVAL { 20 }
    ::= { docsIfCmMacEntry 3 }



docsIfCmRangingTimeout OBJECT-TYPE
    SYNTAX      TimeInterval
    UNITS       "HundredOfSeconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Waiting time for a Ranging Response packet.
         This object MUST NOT persist at reinitialization
         of the managed system."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.1.6, timer T3."
    DEFVAL { 20 }
    ::= { docsIfCmMacEntry 4 }

--
-- CM status table.
-- This table is implemented only at the CM.
--

docsIfCmStatusTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmStatusEntry
    MAX-ACCESS  not-accessible
     STATUS      current
    DESCRIPTION
        "This table maintains a number of status objects
         and counters for Cable Modems."
    ::= { docsIfCmObjects 2 }

docsIfCmStatusEntry OBJECT-TYPE
    SYNTAX      DocsIfCmStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A set of status objects and counters for a single MAC
         layer instance in Cable Modem.
         An entry in this table exists for each ifEntry with an
```

```
        ifType of docsCableMaclayer(127)."
    INDEX { ifIndex }
    ::= { docsIfCmStatusTable 1 }

DocsIfCmStatusEntry ::= SEQUENCE {
        docsIfCmStatusValue             INTEGER,
        docsIfCmStatusCode              OCTET STRING,
        docsIfCmStatusTxPower             TenthdBmV,
        docsIfCmStatusResets            Counter32,
        docsIfCmStatusLostSyncs           Counter32,



        docsIfCmStatusInvalidMaps         Counter32,
        docsIfCmStatusInvalidUcds
     Counter32,
        docsIfCmStatusInvalidRangingResponses   Counter32,
        docsIfCmStatusInvalidRegistrationResponses Counter32,
        docsIfCmStatusT1Timeouts          Counter32,
        docsIfCmStatusT2Timeouts          Counter32,
        docsIfCmStatusT3Timeouts          Counter32,
        docsIfCmStatusT4Timeouts          Counter32,
        docsIfCmStatusRangingAborteds     Counter32,
        docsIfCmStatusDocsisOperMode      DocsisQosVersion,
        docsIfCmStatusModulationType      DocsisUpstreamType,
        docsIfCmStatusEqualizationData    DocsEqualizerData,
        docsIfCmStatusUCCs              Counter32,
        docsIfCmStatusUCCFails            Counter32
    }

docsIfCmStatusValue OBJECT-TYPE
    SYNTAX      INTEGER {
        other(1),
        notReady(2),
        notSynchronized(3),
        phySynchronized(4),
        usParametersAcquired(5),
        rangingComplete(6),
        ipComplete(7),
        todEstablished(8),
        securityEstablished(9),
         paramTransferComplete(10),
        registrationComplete(11),
        operational(12),
        accessDenied(13)
    }
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "Current Cable Modem connectivity state, as specified
        in the RF Interface Specification.  Interpretations for
        state values 1-12 are clearly outlined in the SP-RFI
        reference given below.
        The state value accessDenied(13) indicates the CMTS has
        sent a Registration Aborted message to the CM.  The same
        state is reported as accessDenied(7) by the CMTS object
        docsIfCmtsCmStatusValue."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 11.2.
        Data-Over-Cable Service Interface Specifications:




        Operations Support System Interface Specification
        SP-OSSIv2.0-I09-050812,
 Section 6.3.4.2."
    ::= { docsIfCmStatusEntry 1 }

docsIfCmStatusCode OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE( 0 | 5 | 6 ))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Status code for a Cable Modem as defined in the
        OSSI Specification.  The status code consists
        of a single character indicating error groups, followed
        by a two- or three-digit number indicating the status
        condition, followed by a decimal.
        An example of a returned value could be 'T101.0'.
        The zero-length OCTET STRING indicates no status code yet
        registered."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications:
        Operations Support System Interface Specification
        SP-OSSIv2.0-I09-050812, Annex D."
    ::= { docsIfCmStatusEntry 2 }


docsIfCmStatusTxPower OBJECT-TYPE
    SYNTAX      TenthdBmV
    UNITS       "TenthdBmV"
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "The operational transmit power for the attached upstream
        channel."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.18."
    ::= { docsIfCmStatusEntry 3 }

docsIfCmStatusResets OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "resets"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM reset or initialized this
        interface.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmStatusEntry 4 }

docsIfCmStatusLostSyncs OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM
 lost synchronization with
        the downstream channel.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.2."
    ::= { docsIfCmStatusEntry 5 }

docsIfCmStatusInvalidMaps OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "maps"
    MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid MAP messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE

  "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.4."
    ::= { docsIfCmStatusEntry 6 }

docsIfCmStatusInvalidUcds OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid UCD messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of




        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.3."
    ::= { docsIfCmStatusEntry 7 }

docsIfCmStatusInvalidRangingResponses OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
     STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid ranging response
        messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.6."
    ::= { docsIfCmStatusEntry 8 }

docsIfCmStatusInvalidRegistrationResponses OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid registration
        response messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as
 indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.8."
    ::= { docsIfCmStatusEntry 9 }

docsIfCmStatusT1Timeouts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "timeouts"
    MAX-ACCESS  read-only
    STATUS      current



    DESCRIPTION
        "Number of times counter T1 expired in the CM.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 9-2."
    ::= { docsIfCmStatusEntry 10 }

docsIfCmStatusT2Timeouts OBJECT-TYPE
     SYNTAX      Counter32
    UNITS       "timeouts"
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "Number of times counter T2 expired in the CM.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 9-2."
    ::= { docsIfCmStatusEntry 11 }

docsIfCmStatusT3Timeouts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "timeouts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times counter T3 expired in the CM.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times
 as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 9-2."
    ::= { docsIfCmStatusEntry 12 }

docsIfCmStatusT4Timeouts OBJECT-TYPE
    SYNTAX      Counter32



    UNITS       "timeouts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times counter T4 expired in the CM.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 9-2."
```

```
    ::= { docsIfCmStatusEntry 13 }

docsIfCmStatusRangingAborteds
 OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the ranging process was aborted
        by the CMTS.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3.3."
    ::= { docsIfCmStatusEntry 14 }

docsIfCmStatusDocsisOperMode OBJECT-TYPE
    SYNTAX      DocsisQosVersion
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indication of whether the device has registered using 1.0
        Class of Service or 1.1 Quality of Service.
        An unregistered CM SHOULD indicate 'docsis11'
 for a
        docsIfDocsisBaseCapability value of DOCSIS 1.1/2.0.  An
        unregistered CM SHOULD indicate 'docsis10'  for a
        docsIfDocsisBaseCapability value of DOCSIS 1.0."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex G."



    ::= { docsIfCmStatusEntry 15 }

docsIfCmStatusModulationType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indicates modulation type status currently used by the
```

CM. Since this object specifically identifies PHY mode, the shared upstream channel type is not permitted."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 6.2.1."

::= { docsIfCmStatusEntry 16 }

docsIfCmStatusEqualizationData OBJECT-TYPE
SYNTAX DocsEqualizerData
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Pre-equalization data for this CM after convolution with data indicated in the RNG-RSP. This data is valid when docsIfUpChannelPreEqEnable is set to true."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Figure 8-23."
::= { docsIfCmStatusEntry 17 }

docsIfCmStatusUCCs OBJECT-TYPE
SYNTAX Counter32
UNITS "attempts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of successful Upstream Channel Change transactions.
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmStatusEntry 18 }

docsIfCmStatusUCCFails OBJECT-TYPE
SYNTAX Counter32
UNITS "attempts"

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of failed Upstream Channel Change transactions.

```
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmStatusEntry 19 }

--
-- The Cable Modem Service Table
--

docsIfCmServiceTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes of each upstream service queue
        on a CM."
    ::= { docsIfCmObjects 3 }

docsIfCmServiceEntry OBJECT-TYPE
    SYNTAX      DocsIfCmServiceEntry
    MAX-ACCESS  not-accessible
    STATUS
      current
    DESCRIPTION
        "Describes the attributes of an upstream bandwidth service
        queue.
        An entry in this table exists for each Service ID.
        The primary index is an ifIndex with an ifType of
        docsCableMaclayer(127)."
    INDEX { ifIndex, docsIfCmServiceId }
    ::= { docsIfCmServiceTable 1 }

DocsIfCmServiceEntry ::= SEQUENCE {
        docsIfCmServiceId               Integer32,
        docsIfCmServiceQosProfile       Integer32,
        docsIfCmServiceTxSlotsImmed     Counter32,
        docsIfCmServiceTxSlotsDed       Counter32,
        docsIfCmServiceTxRetries        Counter32,
        docsIfCmServiceTxExceededs      Counter32,
        docsIfCmServiceRqRetries        Counter32,
        docsIfCmServiceRqExceededs      Counter32,
        docsIfCmServiceExtTxSlotsImmed  Counter64,
        docsIfCmServiceExtTxSlotsDed    Counter64



     }
```

```
docsIfCmServiceId OBJECT-TYPE
   SYNTAX      Integer32 (1..16383)
   MAX-ACCESS
  not-accessible
   STATUS      current
   DESCRIPTION
      "Identifies a service queue for upstream bandwidth.  The
       attributes of this service queue are shared between the
       CM and the CMTS.  The CMTS allocates upstream bandwidth
       to this service queue based on requests from the CM and
       on the class of service associated with this queue."
   ::= { docsIfCmServiceEntry 1 }

docsIfCmServiceQosProfile OBJECT-TYPE
   SYNTAX      Integer32 (0..16383)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The index in docsIfQosProfileTable describing the quality
       of service attributes associated with this particular
       service.  If no associated entry in docsIfQosProfileTable
       exists, this object returns a value of zero."
   ::= { docsIfCmServiceEntry 2 }

docsIfCmServiceTxSlotsImmed OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS
     current
   DESCRIPTION
      "The number of upstream mini-slots that have been used to
       transmit data PDUs in immediate (contention) mode.  This
       includes only those PDUs that are presumed to have
       arrived at the head-end (i.e., those that were explicitly
       acknowledged).  It does not include retransmission attempts
       or mini-slots used by requests.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 9.4."
   ::= { docsIfCmServiceEntry 3 }
```

```
docsIfCmServiceTxSlotsDed OBJECT-TYPE


    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS
  current
    DESCRIPTION
        "The number of upstream mini-slots that have been used to
        transmit data PDUs in dedicated mode (i.e., as a result
        of a unicast Data Grant).
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 4 }

docsIfCmServiceTxRetries OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of attempts to transmit data PDUs containing
        requests for acknowledgment that did not result in
        acknowledgment.
        Discontinuities in the value of
  this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 5 }

docsIfCmServiceTxExceededs OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "The number of data PDU transmission failures due to
         excessive retries without acknowledgment.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of




         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications:
 Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.4."
    ::= { docsIfCmServiceEntry 6 }

docsIfCmServiceRqRetries OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of attempts to transmit bandwidth requests
         that did not result in acknowledgment.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.4."
    ::= { docsIfCmServiceEntry 7 }

docsIfCmServiceRqExceededs OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS
      current
    DESCRIPTION
        "The number of requests for bandwidth that failed due to
         excessive retries without acknowledgment.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
```

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 8 }

docsIfCmServiceExtTxSlotsImmed OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current



    DESCRIPTION
        "The number of upstream mini-slots that have been used to
        transmit data PDUs in immediate (contention) mode.  This
        includes only those PDUs that are presumed to have
        arrived at the head-end
 (i.e., those that were explicitly
        acknowledged).  It does not include retransmission attempts
        or mini-slots used by requests.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 9 }

docsIfCmServiceExtTxSlotsDed OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of upstream mini-slots that have been used to
        transmit data PDUs in dedicated mode (i.e., as a result
        of a unicast Data Grant).
        Discontinuities in the value of this counter can occur

        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 10 }

--
-- CMTS GROUP
--

--
-- The CMTS MAC Table
--

docsIfCmtsMacTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsMacEntry
    MAX-ACCESS  not-accessible
    STATUS      current



    DESCRIPTION
        "Describes the attributes of each CMTS MAC interface,
        extending the information available from ifEntry.
        Mandatory for all CMTS devices."
    ::= { docsIfCmtsObjects 1 }

docsIfCmtsMacEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsMacEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry containing objects describing attributes of each
         MAC entry, extending the information in ifEntry.
        An entry in this table exists for each ifEntry with an
        ifType of docsCableMaclayer(127)."
    INDEX { ifIndex }
    ::= { docsIfCmtsMacTable 1 }

DocsIfCmtsMacEntry ::= SEQUENCE {
        docsIfCmtsCapabilities           BITS,
        docsIfCmtsSyncInterval           Integer32,
        docsIfCmtsUcdInterval            Integer32,
        docsIfCmtsMaxServiceIds          Integer32,
        docsIfCmtsInsertionInterval      TimeTicks,   -- Obsolete
        docsIfCmtsInvitedRangingAttempts  Integer32,
        docsIfCmtsInsertInterval         TimeInterval,
        docsIfCmtsMacStorageType         StorageType
    }
```

```
docsIfCmtsCapabilities OBJECT-TYPE
   SYNTAX      BITS {
      atmCells(0),
      concatenation(1)
   }
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Identifies the capabilities of the CMTS MAC
       implementation at this interface.  Note
 that packet
       transmission is always supported.  Therefore, there
       is no specific bit required to explicitly indicate
       this capability.
       Note that BITS objects are encoded most significant bit
       first.  For example, if bit 1 is set, the value of this
       object is the octet string '40'H."
   ::= { docsIfCmtsMacEntry 1 }

docsIfCmtsSyncInterval OBJECT-TYPE



   SYNTAX      Integer32 (1..200)
   UNITS       "Milliseconds"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The interval between CMTS transmission of successive SYNC
       messages at this interface."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 9.3."
   ::= { docsIfCmtsMacEntry 2 }

docsIfCmtsUcdInterval OBJECT-TYPE
   SYNTAX      Integer32 (1..2000)
   UNITS       "Milliseconds"
   MAX-ACCESS  read-write

  STATUS      current
   DESCRIPTION
      "The interval between CMTS transmission of successive
       Upstream Channel Descriptor messages for each upstream
       channel at this interface."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3"
    ::= { docsIfCmtsMacEntry 3 }

docsIfCmtsMaxServiceIds OBJECT-TYPE
    SYNTAX     Integer32 (1..16383)
    UNITS      "SIDs"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The maximum number of service IDs that may be
        simultaneously active."
    ::= { docsIfCmtsMacEntry 4 }

docsIfCmtsInsertionInterval OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-write
    STATUS      obsolete
    DESCRIPTION
        "The amount of time to elapse between each broadcast
        initial maintenance grant.  Broadcast initial maintenance
        grants are used to allow
 new cable modems to join the
        network.  Zero indicates that a vendor-specific algorithm
        is used instead of a fixed time.  The maximum amount of




        time permitted by the specification is 2 seconds.
        This object has been obsoleted and replaced by
        docsIfCmtsInsertInterval to fix a SYNTAX typing problem."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex B."
    ::= { docsIfCmtsMacEntry 5 }

docsIfCmtsInvitedRangingAttempts OBJECT-TYPE
    SYNTAX      Integer32 (0..1024)
    UNITS      "attempts"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum number of attempts to make on invitations
        for ranging requests.  A value of zero means the system
        SHOULD attempt to range forever."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency
 Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3.3 and Annex B."
    ::= { docsIfCmtsMacEntry 6 }

docsIfCmtsInsertInterval OBJECT-TYPE
    SYNTAX      TimeInterval
    UNITS       "HundredOfSeconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The amount of time to elapse between each broadcast
        initial maintenance grant.  Broadcast initial maintenance
        grants are used to allow new cable modems to join the
        network.  Zero indicates that a vendor-specific algorithm
        is used instead of a fixed time.  The maximum amount of
        time permitted by the specification is 2 seconds."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex B."
    ::= { docsIfCmtsMacEntry 7 }

docsIfCmtsMacStorageType OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-only
    STATUS
      current
    DESCRIPTION
        "The storage type for this conceptual row.




        Entries with this object set to permanent(4)
        do not require write operations for read-write
        objects."
    ::= { docsIfCmtsMacEntry 8 }

--
--
-- CMTS status table.
--

docsIfCmtsStatusTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
```

```
        "For the MAC layer, this group maintains a number of
         status objects and counters."
    ::= { docsIfCmtsObjects 2 }

docsIfCmtsStatusEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Status entry for a single MAC layer.
         An entry in this table exists for each ifEntry with an
         ifType of docsCableMaclayer(127)."
    INDEX { ifIndex }
    ::= { docsIfCmtsStatusTable 1 }

DocsIfCmtsStatusEntry ::= SEQUENCE {
        docsIfCmtsStatusInvalidRangeReqs
        Counter32,
        docsIfCmtsStatusRangingAborteds         Counter32,
        docsIfCmtsStatusInvalidRegReqs          Counter32,
        docsIfCmtsStatusFailedRegReqs           Counter32,
        docsIfCmtsStatusInvalidDataReqs         Counter32,
        docsIfCmtsStatusT5Timeouts              Counter32
    }

docsIfCmtsStatusInvalidRangeReqs OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts invalid RNG-REQ messages received on
         this interface.
         Discontinuities in the value of this counter can occur




         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Section 8.3.5."
    ::= { docsIfCmtsStatusEntry 1 }

docsIfCmtsStatusRangingAborteds OBJECT-TYPE
    SYNTAX      Counter32
```

```
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts ranging attempts that were explicitly
         aborted by the CMTS.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 8.3.6."
    ::= { docsIfCmtsStatusEntry 2 }

docsIfCmtsStatusInvalidRegReqs OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts invalid REG-REQ messages
 received on
         this interface; that is, syntax, out of range parameters,
         or erroneous requests.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 8.3.7."
    ::= { docsIfCmtsStatusEntry 3 }

docsIfCmtsStatusFailedRegReqs OBJECT-TYPE
    SYNTAX      Counter32



    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts failed registration attempts.  Included
         are docsIfCmtsStatusInvalidRegReqs, authentication, and
         class of service failures.
```

```
        Discontinuities in the value of this counter can occur
        at reinitialization
 of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.7."
    ::= { docsIfCmtsStatusEntry 4 }

docsIfCmtsStatusInvalidDataReqs OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts invalid data request messages
        received on this interface.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsStatusEntry 5 }

docsIfCmtsStatusT5Timeouts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "timeouts"
     MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts the number of times counter T5
        expired on this interface.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 9-2."
    ::= { docsIfCmtsStatusEntry 6 }



--
-- CM status table (within CMTS).
-- This table is implemented only at the CMTS.
```

```
-- It contains per-CM status information available in the CMTS.
--

docsIfCmtsCmStatusTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsCmStatusEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A set of objects in the CMTS, maintained for each
       cable modem connected to this CMTS."
   ::= { docsIfCmtsObjects 3 }

docsIfCmtsCmStatusEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsCmStatusEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Status information for a single cable modem.
       An entry in this table exists for each cable modem
       that is connected to the CMTS implementing this table."
   INDEX { docsIfCmtsCmStatusIndex }
   ::= { docsIfCmtsCmStatusTable 1 }

DocsIfCmtsCmStatusEntry ::= SEQUENCE {
       docsIfCmtsCmStatusIndex              Integer32,
       docsIfCmtsCmStatusMacAddress         MacAddress,
       docsIfCmtsCmStatusIpAddress        IpAddress, -- deprecated
       docsIfCmtsCmStatusDownChannelIfIndex  InterfaceIndexOrZero,
       docsIfCmtsCmStatusUpChannelIfIndex    InterfaceIndexOrZero,
       docsIfCmtsCmStatusRxPower            TenthdBmV,
       docsIfCmtsCmStatusTimingOffset       Unsigned32,
       docsIfCmtsCmStatusEqualizationData
   DocsEqualizerData,
       docsIfCmtsCmStatusValue              INTEGER,
       docsIfCmtsCmStatusUnerroreds         Counter32,
       docsIfCmtsCmStatusCorrecteds         Counter32,
       docsIfCmtsCmStatusUncorrectables     Counter32,
       docsIfCmtsCmStatusSignalNoise        TenthdB,
       docsIfCmtsCmStatusMicroreflections    Integer32,
       docsIfCmtsCmStatusExtUnerroreds      Counter64,
       docsIfCmtsCmStatusExtCorrecteds      Counter64,
       docsIfCmtsCmStatusExtUncorrectables   Counter64,
       docsIfCmtsCmStatusDocsisRegMode       DocsisQosVersion,
       docsIfCmtsCmStatusModulationType      DocsisUpstreamType,
       docsIfCmtsCmStatusInetAddressType     InetAddressType,
       docsIfCmtsCmStatusInetAddress        InetAddress,
```

```
      docsIfCmtsCmStatusValueLastUpdate     TimeStamp,
      docsIfCmtsCmStatusHighResolutionTimingOffset Unsigned32
   }

docsIfCmtsCmStatusIndex OBJECT-TYPE
   SYNTAX
   Integer32 (1..2147483647)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Index value to uniquely identify an entry in this table.
       For an individual cable modem, this index value SHOULD
       NOT change during CMTS uptime."
   ::= { docsIfCmtsCmStatusEntry 1 }

docsIfCmtsCmStatusMacAddress OBJECT-TYPE
   SYNTAX      MacAddress
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "MAC address of the cable modem.  If the cable modem has
       multiple MAC addresses, this is the MAC address associated
       with the Cable interface."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 8.2.2."
   ::= { docsIfCmtsCmStatusEntry 2 }

docsIfCmtsCmStatusIpAddress OBJECT-TYPE
   SYNTAX      IpAddress
   MAX-ACCESS  read-only
   STATUS      deprecated
   DESCRIPTION
      "IP address
 of this cable modem.  If the cable modem has no
       IP address assigned, or the IP address is unknown, this
       object returns a value of 0.0.0.0.  If the cable modem has
       multiple IP addresses, this object returns the IP address
       associated with the Cable interface.
       This object has been deprecated and replaced by
       docsIfCmtsCmStatusInetAddressType and
       docsIfCmtsCmStatusInetAddress, to enable IPv6 addressing
       in the future."
   ::= { docsIfCmtsCmStatusEntry 3 }

docsIfCmtsCmStatusDownChannelIfIndex OBJECT-TYPE
```

```
    SYNTAX      InterfaceIndexOrZero
    MAX-ACCESS  read-only
    STATUS      current



    DESCRIPTION
        "IfIndex of the downstream channel that this CM is
         connected to.  If the downstream channel is unknown, this
         object returns a value of zero."
    ::= { docsIfCmtsCmStatusEntry 4 }

docsIfCmtsCmStatusUpChannelIfIndex OBJECT-TYPE
    SYNTAX      InterfaceIndexOrZero
    MAX-ACCESS
  read-only
    STATUS      current
    DESCRIPTION
       "For DOCSIS 2.0, indicates the ifIndex of the logical
        upstream channel (ifType 205) this CM is connected to.
        For DOCSIS 1.x, indicates the ifIndex of the upstream
         channel (ifType 129) this CM is connected to.
         If the upstream channel is unknown, this object
         returns a value of zero."
    ::= { docsIfCmtsCmStatusEntry 5 }

docsIfCmtsCmStatusRxPower OBJECT-TYPE
    SYNTAX      TenthdBmV
    UNITS       "ThenthdBmV"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The receive power as perceived for upstream data from
         this cable modem.
         If the receive power is unknown, this object returns
         a value of zero."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.18."
    ::= { docsIfCmtsCmStatusEntry 6
  }

docsIfCmtsCmStatusTimingOffset OBJECT-TYPE
    SYNTAX      Unsigned32 (0..4294967295)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```

```
        "A measure of the current round trip time for this CM.
         Used for timing of CM upstream transmissions to ensure
         synchronized arrivals at the CMTS.  Units are in terms
         of (6.25 microseconds/64).  Returns zero if the value
         is unknown.
         For channels requiring finer resolution, please refer to
         object docsIfCmtsCmStatusHighResolutionTimingOffset."
      REFERENCE



        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.17."
      ::= { docsIfCmtsCmStatusEntry 7 }

docsIfCmtsCmStatusEqualizationData OBJECT-TYPE
      SYNTAX      DocsEqualizerData
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
        "Equalization data for this CM, as measured by the CMTS.
          Returns the zero-length OCTET STRING if the value is
         unknown or if there is no equalization data available
         or defined."
      REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Figure 8-23."
      ::= { docsIfCmtsCmStatusEntry 8 }

docsIfCmtsCmStatusValue OBJECT-TYPE
      SYNTAX      INTEGER {
        other(1),
        ranging(2),
        rangingAborted(3),
        rangingComplete(4),
        ipComplete(5),
        registrationComplete(6),
        accessDenied(7),
        operational(8),
        -- value 8 should not be used
        registeredBPIInitializing(9)
      }
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
        "Current cable modem connectivity state, as specified
```

in the RF Interface Specification. Returned status
information is the CM status, as assumed by the CMTS,
and indicates
the following events:
other(1)
Any state other than below.
ranging(2)
The CMTS has received an Initial Ranging Request
message from the CM, and the ranging process is not
yet complete.
rangingAborted(3)
The CMTS has sent a Ranging Abort message to the CM.

rangingComplete(4)
The CMTS has sent a Ranging Complete message to the CM.
ipComplete(5)
The CMTS has received a DHCP reply message and
forwarded it to the CM.
registrationComplete(6)
The CMTS has sent a Registration Response message to
the CM.
accessDenied(7)
The CMTS has sent a Registration Aborted message
to the CM.
operational(8)
Value 8 is considered reserved and should not be defined
in future revisions of this MIB module to avoid conflict
with documented
implementations that support value 8 to
indicate operational state after completing the BPI
initialization process.
registeredBPIInitializing(9)
Baseline Privacy (BPI) is enabled and the CMTS is in the
process of completing BPI initialization. This state
MAY last for a significant length of time if failures
occur during the initialization process. After
completion of BPI initialization, the CMTS will report
registrationComplete(6).
The CMTS only needs to report states it is able to
detect."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 11.2."
::= { docsIfCmtsCmStatusEntry 9 }

```
docsIfCmtsCmStatusUnerroreds OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "codewords"
   MAX-ACCESS  read-only
   STATUS      current

  DESCRIPTION
       "Codewords received without error from this cable modem.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.4."
   ::= { docsIfCmtsCmStatusEntry 10 }



docsIfCmtsCmStatusCorrecteds OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "codewords"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "Codewords received with correctable errors from this
        cable modem.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime
 for the associated ifIndex."
   REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.4."
   ::= { docsIfCmtsCmStatusEntry 11 }

docsIfCmtsCmStatusUncorrectables OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "codewords"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "Codewords received with uncorrectable errors from this
        cable modem.
        Discontinuities in the value of this counter can occur
```

at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 6.2.4."
::= { docsIfCmtsCmStatusEntry 12 }

docsIfCmtsCmStatusSignalNoise OBJECT-TYPE
SYNTAX TenthdB
UNITS "TenthdB"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Signal/Noise ratio as perceived for upstream data from
this cable modem.
If the Signal/Noise is unknown, this object returns
a value of zero."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio

Frequency Interface Specification SP-RFIv2.0-I10-051209,
Tables 4-1 and 4-2."
::= { docsIfCmtsCmStatusEntry 13 }

docsIfCmtsCmStatusMicroreflections OBJECT-TYPE
SYNTAX Integer32 (0..255)
UNITS "-dBc"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Total microreflections, including in-channel response
as perceived on this interface, measured in dBc below
the signal level.
This object is not assumed to return an absolutely
accurate value, but it gives a rough indication
of microreflections
received on this interface.
It is up to the implementer to provide information
as accurately as possible.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE

```
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 4-1 and 4-2"
    ::= { docsIfCmtsCmStatusEntry 14 }

docsIfCmtsCmStatusExtUnerroreds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received without error from this cable modem.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the
 value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.5."
    ::= { docsIfCmtsCmStatusEntry 15 }

docsIfCmtsCmStatusExtCorrecteds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"



    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received with correctable errors from this
        cable modem.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.5."
    ::= { docsIfCmtsCmStatusEntry
 16 }

docsIfCmtsCmStatusExtUncorrectables OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
```

```
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received with uncorrectable errors from this
         cable modem.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.5."
    ::= { docsIfCmtsCmStatusEntry 17 }

docsIfCmtsCmStatusDocsisRegMode OBJECT-TYPE
      SYNTAX      DocsisQosVersion
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
          "Indication of whether the CM has registered using 1.0
           Class of Service or 1.1 Quality of Service."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Annex G."
    ::= { docsIfCmtsCmStatusEntry 18 }

docsIfCmtsCmStatusModulationType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType


    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indicates modulation type currently used by the CM.  Since
         this object specifically identifies PHY mode, the shared
         type is not permitted.  If the upstream channel is
         unknown, this object returns a value of zero."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-19."
    ::= { docsIfCmtsCmStatusEntry 19 }

docsIfCmtsCmStatusInetAddressType OBJECT-TYPE
      SYNTAX      InetAddressType
```

```
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The type of internet address of
            docsIfCmtsCmStatusInetAddress.  If the cable modem
            internet address is unassigned or unknown, then the
            value of this object is unknown(0)."
        ::= { docsIfCmtsCmStatusEntry 20 }

docsIfCmtsCmStatusInetAddress OBJECT-TYPE
        SYNTAX      InetAddress
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "Internet address of this cable modem.  If the Cable
            Modem has no Internet address assigned, or the Internet
            address is unknown, the value of this object is the
            zero-length OCTET STRING.  If the cable modem has
            multiple Internet addresses, this object returns the
            Internet address associated with the Cable
            (i.e., RF MAC) interface."
        ::= { docsIfCmtsCmStatusEntry 21 }

docsIfCmtsCmStatusValueLastUpdate OBJECT-TYPE
        SYNTAX      TimeStamp
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The value of sysUpTime when docsIfCmtsCmStatusValue
            was last updated."
        ::= { docsIfCmtsCmStatusEntry 22 }

docsIfCmtsCmStatusHighResolutionTimingOffset OBJECT-TYPE



    SYNTAX      Unsigned32 (0..4294967295)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A measure of the current round trip time for this CM.
        Used for timing of CM upstream transmissions to ensure
        synchronized arrivals at the CMTS.  Units are in terms
        of (6.25 microseconds/(64*256)).  Returns zero if the value
        is unknown.
        This is the high resolution version of object
        docsIfCmtsCmStatusTimingOffset, for channels requiring
        finer resolution."
```

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.17."
    ::= { docsIfCmtsCmStatusEntry
 23 }

--
-- The CMTS Service Table.
--

docsIfCmtsServiceTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes of upstream service queues
         in a Cable Modem Termination System."
    ::= { docsIfCmtsObjects 4 }

docsIfCmtsServiceEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes of a single upstream bandwidth
         service queue.
         Entries in this table exist for each ifEntry with an
         ifType of docsCableMaclayer(127), and for each service
         queue (Service ID) within this MAC layer.
         Entries in this table are created with the creation of
         individual Service IDs by the MAC layer and removed
         when a Service ID is removed."
    INDEX { ifIndex, docsIfCmtsServiceId }
    ::= { docsIfCmtsServiceTable
 1 }

DocsIfCmtsServiceEntry ::= SEQUENCE {



        docsIfCmtsServiceId             Integer32,
        docsIfCmtsServiceCmStatusIndex    Integer32,  -- deprecated
        docsIfCmtsServiceAdminStatus      INTEGER,
        docsIfCmtsServiceQosProfile       Integer32,
        docsIfCmtsServiceCreateTime       TimeStamp,
        docsIfCmtsServiceInOctets         Counter32,
        docsIfCmtsServiceInPackets        Counter32,
```

```
      docsIfCmtsServiceNewCmStatusIndex Integer32
   }

docsIfCmtsServiceId OBJECT-TYPE
   SYNTAX      Integer32 (1..16383)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Identifies a service queue for upstream bandwidth.  The
       attributes of this service queue are shared between the
       Cable Modem and the Cable Modem Termination System.
       The CMTS allocates upstream bandwidth to this service
       queue based on requests from the CM and on the class of
       service
 associated with this queue."
   ::= { docsIfCmtsServiceEntry 1 }

docsIfCmtsServiceCmStatusIndex OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)
   MAX-ACCESS  read-only
   STATUS      deprecated
   DESCRIPTION
      "Pointer to an entry in docsIfCmtsCmStatusTable identifying
       the cable modem using this Service Queue.  If multiple
       cable modems are using this Service Queue, the value of
       this object is zero.
       This object has been deprecated and replaced by
       docsIfCmtsServiceNewCmStatusIndex, to fix a mismatch
       of the value range with respect to docsIfCmtsCmStatusIndex
       (1..2147483647)."
   ::= { docsIfCmtsServiceEntry 2 }

docsIfCmtsServiceAdminStatus OBJECT-TYPE
   SYNTAX      INTEGER {
      enabled(1),
      disabled(2),
      destroyed(3) }
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "Allows a service class for a particular modem to be
       suppressed,
 (re-)enabled, or deleted altogether."



   ::= { docsIfCmtsServiceEntry 3 }
```

```
docsIfCmtsServiceQosProfile OBJECT-TYPE
   SYNTAX      Integer32 (0..16383)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The index in docsIfQosProfileTable describing the quality
       of service attributes associated with this particular
       service.  If no associated docsIfQosProfileTable entry
       exists, this object returns a value of zero."
   ::= { docsIfCmtsServiceEntry 4 }

docsIfCmtsServiceCreateTime OBJECT-TYPE
   SYNTAX      TimeStamp
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The value of sysUpTime when this entry was created."
   ::= { docsIfCmtsServiceEntry 5 }

docsIfCmtsServiceInOctets OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "Bytes"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The cumulative number of Packet Data octets received
       on this Service
 ID.  The count does not include the
       size of the Cable MAC header.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsServiceEntry 6 }

docsIfCmtsServiceInPackets OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "packets"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The cumulative number of Packet Data packets received
       on this Service ID.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
```

```
    ::= { docsIfCmtsServiceEntry 7 }

docsIfCmtsServiceNewCmStatusIndex OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS
  read-only
    STATUS      current
    DESCRIPTION
        "Pointer (via docsIfCmtsCmStatusIndex) to an entry in
         docsIfCmtsCmStatusTable identifying the cable modem
         using this Service Queue.  If multiple cable modems are
         using this Service Queue, the value of this object is
         zero."
    ::= { docsIfCmtsServiceEntry 8 }

--
-- The following table provides upstream channel modulation profiles.
-- Entries in this table can be
-- re-used by one or more upstream channels.  An upstream channel
-- will have a modulation profile for each value of
-- docsIfModIntervalUsageCode.
--

docsIfCmtsModulationTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsModulationEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes a modulation profile associated with one or more
         upstream channels."
    ::= { docsIfCmtsObjects 5 }

docsIfCmtsModulationEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsModulationEntry
     MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes a modulation profile for an Interval Usage Code
         for one or more upstream channels.
         Entries in this table are created by the operator.

         Initial default entries MAY be created at system
         initialization time, which could report a value of
         'permanent' or 'readOnly' for docsIfCmtsModStorageType.
         A CMTS MAY reject the creation of additional Interval
         Usage Codes for a modulation profile being defined at
```

```
        Initialization time.
        No individual objects have to be specified in order
        to create an entry in this table.



        Note that some objects do not have DEFVAL clauses
        but do have calculated defaults and need not be specified
        during row creation."
    INDEX { docsIfCmtsModIndex, docsIfCmtsModIntervalUsageCode}
   ::= { docsIfCmtsModulationTable 1 }

DocsIfCmtsModulationEntry
 ::= SEQUENCE {
       docsIfCmtsModIndex                  Integer32,
       docsIfCmtsModIntervalUsageCode      INTEGER,
       docsIfCmtsModControl                RowStatus,
       docsIfCmtsModType                   INTEGER,
       docsIfCmtsModPreambleLen            Integer32,
       docsIfCmtsModDifferentialEncoding   TruthValue,
       docsIfCmtsModFECErrorCorrection     Integer32,
       docsIfCmtsModFECCodewordLength      Integer32,
       docsIfCmtsModScramblerSeed          Integer32,
       docsIfCmtsModMaxBurstSize           Integer32,
       docsIfCmtsModGuardTimeSize          Unsigned32,
       docsIfCmtsModLastCodewordShortened  TruthValue,
       docsIfCmtsModScrambler              TruthValue,
       docsIfCmtsModByteInterleaverDepth   Unsigned32,
       docsIfCmtsModByteInterleaverBlockSize Unsigned32,
       docsIfCmtsModPreambleType           INTEGER,
       docsIfCmtsModTcmErrorCorrectionOn   TruthValue,
        docsIfCmtsModScdmaInterleaverStepSize Unsigned32,
       docsIfCmtsModScdmaSpreaderEnable    TruthValue,
       docsIfCmtsModScdmaSubframeCodes     Unsigned32,
       docsIfCmtsModChannelType            DocsisUpstreamType,
       docsIfCmtsModStorageType            StorageType
   }

docsIfCmtsModIndex OBJECT-TYPE
   SYNTAX      Integer32 (1..2147483647)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
       "An index into the Channel Modulation table representing
        a group of Interval Usage Codes, all associated with the
        same channel."
   ::= { docsIfCmtsModulationEntry 1 }
```

```
docsIfCmtsModIntervalUsageCode OBJECT-TYPE
   SYNTAX       INTEGER {
      request(1),
      requestData(2),
      initialRanging(3),
      periodicRanging(4),
      shortData(5),




      longData(6),
      advPhyShortData(9),
      advPhyLongData(10),
      ugs(11)
   }
   MAX-ACCESS  not-accessible
    STATUS      current
   DESCRIPTION
      "An index into the Channel Modulation table that, when
       grouped with other Interval Usage Codes, fully
       instantiates all modulation sets for a given upstream
       channel."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Table 8-20."
   ::= { docsIfCmtsModulationEntry 2 }

docsIfCmtsModControl OBJECT-TYPE
   SYNTAX      RowStatus
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "Controls and reflects the status of rows in this table.
       There is no restriction on the changing of values in this
       table while their associated rows are active, with the
       exception of:

       1. If a modulation profile is being referenced by one
          or more upstream channels, an attempt to set the value
          of docsIfCmtsModChannelType returns
an
          'inconsistentValue' error.

       2. If a modulation profile is being referenced by one
          or more upstream channels, an attempt to set
          docsIfCmtsModControl to destroy(6) or notInService(2)
          returns an 'inconsistentValue' error."
```

```
    ::= { docsIfCmtsModulationEntry 3 }

docsIfCmtsModType OBJECT-TYPE
    SYNTAX      INTEGER {
        other(1),
        qpsk(2),
        qam16(3),
        qam8(4),
        qam32(5),
        qam64(6),
        qam128(7)




    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The modulation type used on this channel.  Returns
         other(1) if the modulation type is not
         qpsk, qam16, qam8, qam32, qam64, or qam128.
         Type qam128 is used for SCDMA channels only.
         See the reference for the modulation profiles
         implied by different modulation types."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications:
 Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { qpsk }
    ::= { docsIfCmtsModulationEntry 4 }

docsIfCmtsModPreambleLen OBJECT-TYPE
    SYNTAX      Integer32 (0..1536)
    UNITS       "bits"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The preamble length for this modulation profile in bits.
         Default value is the minimum needed by the implementation
         at the CMTS for the given modulation profile."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 5 }

docsIfCmtsModDifferentialEncoding OBJECT-TYPE
```

```
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Specifies whether or not differential encoding is used
         on this channel."
    REFERENCE
         "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { false }
    ::= { docsIfCmtsModulationEntry 6 }

docsIfCmtsModFECErrorCorrection OBJECT-TYPE
    SYNTAX      Integer32 (0..16)



    UNITS       "Bytes"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The number of correctable errored bytes (t) used in
         forward error correction code.  The value of 0 indicates
         that no correction is employed.  The number of check bytes
         appended will be twice this value."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { 0 }
    ::= { docsIfCmtsModulationEntry 7 }

docsIfCmtsModFECCodewordLength OBJECT-TYPE
    SYNTAX      Integer32 (1..255)
    UNITS       "Bytes"
     MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The number of data bytes (k) in the forward error
         correction codeword.
         This object is not used if docsIfCmtsModFECErrorCorrection
         is zero."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { 32 }
```

```
    ::= { docsIfCmtsModulationEntry 8 }

docsIfCmtsModScramblerSeed OBJECT-TYPE
    SYNTAX      Integer32 (0..32767)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The 15-bit seed value for the scrambler polynomial."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-19."
    DEFVAL { 0 }
    ::= { docsIfCmtsModulationEntry 9 }

docsIfCmtsModMaxBurstSize OBJECT-TYPE
    SYNTAX      Integer32
 (0..255)
    UNITS       "mini-slots"



    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum number of mini-slots that can be transmitted
         during this channel's burst time.  Returns zero if the
         burst length is bounded by the allocation MAP rather than
         by this profile.
         Default value is 0, except for shortData, where it is 8."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-19."
    ::= { docsIfCmtsModulationEntry 10 }

docsIfCmtsModGuardTimeSize OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "Symbol-times"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of symbol-times that MUST follow the end of
         this channel's burst.  Default value is the minimum time
         needed by the implementation for this modulation profile."

 REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 11 }

docsIfCmtsModLastCodewordShortened OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the last FEC codeword is truncated."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    DEFVAL { true }
    ::= { docsIfCmtsModulationEntry 12 }

docsIfCmtsModScrambler OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the scrambler is employed."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { false }
    ::= { docsIfCmtsModulationEntry 13 }

docsIfCmtsModByteInterleaverDepth OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "ATDMA Byte Interleaver Depth (Ir).  This object returns 1
        for non-ATDMA profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 14 }

docsIfCmtsModByteInterleaverBlockSize OBJECT-TYPE
```

```
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "ATDMA Byte Interleaver Block size (Br).  This object
         returns zero for non-ATDMA profiles "
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Tables 6-7, and 8-19."
    DEFVAL { 18 }
    ::= { docsIfCmtsModulationEntry 15 }

docsIfCmtsModPreambleType OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(0),
        qpsk0(1),
        qpsk1(2)
    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Preamble type for DOCSIS 2.0 bursts.  The value
         'unknown(0)' represents a row entry consisting only of
         DOCSIS 1.x bursts"
    REFERENCE




        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { qpsk0 }
    ::= { docsIfCmtsModulationEntry 16 }

docsIfCmtsModTcmErrorCorrectionOn OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Trellis Code Modulation (TCM) On/Off.  This value returns
         false for non-S-CDMA profiles."
    REFERENCE
        "Data-Over-Cable
  Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { false }
```

```
    ::= { docsIfCmtsModulationEntry 17 }

docsIfCmtsModScdmaInterleaverStepSize OBJECT-TYPE
    SYNTAX      Unsigned32 (0 | 1..32)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " S-CDMA Interleaver step size.  This value returns zero
          for non-S-CDMA profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 18 }

docsIfCmtsModScdmaSpreaderEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " S-CDMA spreader.  This value returns false for non-S-CDMA
          profiles.  Default value for IUC 3 and 4 is OFF; for

       all other IUCs it is ON."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 19 }




docsIfCmtsModScdmaSubframeCodes OBJECT-TYPE
    SYNTAX      Unsigned32 (0 | 1..128)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " S-CDMA sub-frame size.  This value returns zero
          for non-S-CDMA profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 20 }
```

```
docsIfCmtsModChannelType OBJECT-TYPE
   SYNTAX      DocsisUpstreamType
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "Describes the modulation channel type for this modulation
       entry.
       All the active
 entries in a modulation profile (that is all
       active entries that share a common docsIfCmtsModIndex)
       MUST have the same value of docsIfCmtsModChannelType."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Table 8-19."
   DEFVAL { tdma }
   ::= { docsIfCmtsModulationEntry 21 }

docsIfCmtsModStorageType OBJECT-TYPE
   SYNTAX       StorageType
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
      "The storage type for this conceptual row.
       Entries with this object set to permanent(4)
       do not require write operations for read-write
       objects."
   DEFVAL      { nonVolatile }
::= { docsIfCmtsModulationEntry 22 }

docsIfCmtsQosProfilePermissions OBJECT-TYPE
   SYNTAX      BITS {
      createByManagement(0),
      updateByManagement(1),
      createByModems(2)




   }
   MAX-ACCESS  read-write
    STATUS      current
   DESCRIPTION
      "This object specifies permitted methods of creating
       entries in docsIfQosProfileTable.
       createByManagement(0) is set if entries can be created
       using SNMP.  updateByManagement(1) is set if updating
       entries using SNMP is permitted.  createByModems(2)
       is set if entries can be created based on information
```

```
        in REG-REQ MAC messages received from cable modems.
        Information in this object is only applicable if
        docsIfQosProfileTable is implemented as read-create.
        Otherwise, this object is implemented as read-only
        and returns createByModems(2).
        Either createByManagement(0) or updateByManagement(1)
        MUST be set when writing to this object.
        Note that BITS objects are encoded most significant bit
        first.  For example, if bit 2 is set, the value of this
        object is the octet string '20'H."
    ::= { docsIfCmtsObjects
 6 }

docsIfCmtsMacToCmTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsMacToCmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This is a table to provide a quick access index into the
        docsIfCmtsCmStatusTable.  There is exactly one row in this
        table for each row in the docsIfCmtsCmStatusTable.  In
        general, the management station SHOULD use this table only
        to get a pointer into the docsIfCmtsCmStatusTable (which
        corresponds to the CM's RF interface MAC address) and
        SHOULD not iterate (e.g., GetNext through) this table."
    ::= { docsIfCmtsObjects 7 }

docsIfCmtsMacToCmEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsMacToCmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the docsIfCmtsMacToCmTable.
        An entry in this table exists for each cable modem
        that is connected to the CMTS implementing this table."
     INDEX   { docsIfCmtsCmMac }
    ::= {docsIfCmtsMacToCmTable 1 }

DocsIfCmtsMacToCmEntry ::= SEQUENCE {




        docsIfCmtsCmMac     MacAddress,
        docsIfCmtsCmPtr     Integer32
    }

docsIfCmtsCmMac OBJECT-TYPE
    SYNTAX      MacAddress
```

```
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The RF side MAC address for the referenced CM (e.g., the
         interface on the CM that has docsCableMacLayer(127) as
         its ifType)."
    ::= { docsIfCmtsMacToCmEntry 1 }

docsIfCmtsCmPtr OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "An row index into docsIfCmtsCmStatusTable.  When queried
         with the correct instance value (e.g., a CM's MAC address),
         returns the index in docsIfCmtsCmStatusTable that
         represents that CM."
    ::= { docsIfCmtsMacToCmEntry 2 }

-- The following independent object and associated table
 provide
-- operators with a mechanism to evaluate the load/utilization of
-- both upstream and downstream physical channels.  This information
-- may be used for capacity planning and incident analysis and may
-- be particularly helpful in provisioning of high value QOS.
--
-- Utilization is expressed as an index representing the calculated
-- percentage utilization of the upstream or downstream channel in
-- the most recent sampling interval (i.e., utilization interval).
-- Refer to the DESCRIPTION field of the
-- docsIfCmtsChannelUtUtilization object for definitions and
-- calculation details.

docsIfCmtsChannelUtilizationInterval OBJECT-TYPE
    SYNTAX      Integer32 (0..86400)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The time interval in seconds over which the channel
         utilization index is calculated.  All upstream/downstream
         channels use the same
         docsIfCmtsChannelUtilizationInterval.



          Setting a value of zero disables utilization reporting.
         A channel utilization index is calculated over a fixed
```

```
        window applying to the most recent
        docsIfCmtsChannelUtilizationInterval.  It would therefore
        be prudent to use a relatively short
        docsIfCmtsChannelUtilizationInterval.
        It is a vendor decision whether to reset the timer when
        docsIfCmtsChannelUtilizationInterval is changed during a
        utilization sampling period."
    ::= { docsIfCmtsObjects 8 }

docsIfCmtsChannelUtilizationTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsChannelUtilizationEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Reports utilization statistics for attached upstream and
        downstream physical channels."
    ::= { docsIfCmtsObjects 9 }

docsIfCmtsChannelUtilizationEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsChannelUtilizationEntry
    MAX-ACCESS  not-accessible
     STATUS      current
    DESCRIPTION
        "Utilization statistics for a single upstream or downstream
        physical channel.  An entry exists in this table for each
        ifEntry with an ifType equal to
        docsCableDownstream (128)
        or docsCableUpstream (129)."
    INDEX  { ifIndex, docsIfCmtsChannelUtIfType,
        docsIfCmtsChannelUtId }
    ::= { docsIfCmtsChannelUtilizationTable 1 }

DocsIfCmtsChannelUtilizationEntry ::= SEQUENCE {
        docsIfCmtsChannelUtIfType         IANAifType,
        docsIfCmtsChannelUtId             Integer32,
        docsIfCmtsChannelUtUtilization    Integer32
    }

docsIfCmtsChannelUtIfType OBJECT-TYPE
    SYNTAX       IANAifType
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "The secondary index into this table.  Indicates the IANA
        interface type associated with this physical channel.
        Only docsCableDownstream (128) and
```

```
        docsCableUpstream
 (129) are valid."
    ::= { docsIfCmtsChannelUtilizationEntry 1 }

docsIfCmtsChannelUtId OBJECT-TYPE
    SYNTAX       Integer32 (0..255)
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "The tertiary index into this table.  Indicates the CMTS
         identifier for this physical channel."
    ::= { docsIfCmtsChannelUtilizationEntry 2 }

docsIfCmtsChannelUtUtilization OBJECT-TYPE
    SYNTAX       Integer32 (0..100)
    UNITS        "percent"
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
       "The calculated and truncated utilization index for this
        physical upstream or downstream channel, accurate as of
        the most recent docsIfCmtsChannelUtilizationInterval.

        Upstream Channel Utilization Index:

        The upstream channel utilization index is expressed as a
        percentage of mini-slots utilized on the physical channel,
        regardless of burst type.  For an Initial Maintenance
         region, the mini-slots for the complete region are
        considered utilized if the CMTS received an upstream
        burst within the region from any CM on the physical
        channel.  For contention REQ and REQ/DATA regions, the
        mini-slots for a transmission opportunity within the
        region are considered utilized if the CMTS received an
        upstream burst within the opportunity from any CM on the
        physical channel.  For all other regions, utilized
        mini-slots are those in which the CMTS granted
        bandwidth to any unicast SID on the physical channel.

        For an upstream interface that has multiple logical
        upstream channels enabled, the utilization index is a
        weighted sum of utilization indices for the logical
        channels.  The weight for each utilization index is the
        percentage of upstream mini-slots allocated for the
        corresponding logical channel.
```

Example:
If 75% of bandwidth is allocated to the first logical channel and 25% to the second, and the utilization indices for each are 60 and 40, respectively, the

utilization index for the upstream physical channel is (60 * 0.75) + (40 * 0.25) = 55. This figure applies to the most recent utilization interval.

Downstream Channel Utilization Index:

The downstream channel utilization index is a percentage expressing the ratio between bytes used to transmit data versus the total number of bytes transmitted in the raw bandwidth of the MPEG channel. As with the upstream utilization index, the calculated value represents the most recent utilization interval.
Formula:
Downstream utilization index =
(100 * (data bytes / raw bytes))

Definitions:
Data bytes: Number of bytes transmitted as data in the

docsIfCmtsChannelUtilizationInterval.
Identical to docsIfCmtsDownChannelCtrUsed
Bytes measured over the utilization
interval.
Raw bandwidth: Total number of bytes available for
transmitting data, not including bytes
used for headers and other overhead.
Raw bytes: (raw bandwidth *
docsIfCmtsChannelUtilizationInterval).
Identical to docsIfCmtsDownChannelCtrTotal
Bytes measured over the utilization
interval."
::= { docsIfCmtsChannelUtilizationEntry 3 }

-- The following table provides operators with input data
-- appropriate for calculating downstream channel utilization.
-- Operators may use the docsIfCmtsChannelUtilizationTable or
-- perform their own polling of the
-- docsIfCmtsDownChannelCounterTable objects to characterize
--
their downstream channel usage. The 32-bit counter objects are
-- included to provide backward compatibility with SNMPv1 managers,

```
-- which cannot access 64-bit counter objects.

docsIfCmtsDownChannelCounterTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsDownChannelCounterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table is implemented at the CMTS to collect
       downstream channel statistics for utilization




       calculations."
   ::= { docsIfCmtsObjects 10 }

docsIfCmtsDownChannelCounterEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsDownChannelCounterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An entry provides a list of traffic counters for a single
       downstream channel.
       An entry in this table exists for each ifEntry with an
       ifType of docsCableDownstream(128)."
   INDEX { ifIndex }
   ::= { docsIfCmtsDownChannelCounterTable
 1 }

DocsIfCmtsDownChannelCounterEntry ::= SEQUENCE {
      docsIfCmtsDownChnlCtrId             Integer32,
      docsIfCmtsDownChnlCtrTotalBytes     Counter32,
      docsIfCmtsDownChnlCtrUsedBytes      Counter32,
      docsIfCmtsDownChnlCtrExtTotalBytes  Counter64,
      docsIfCmtsDownChnlCtrExtUsedBytes   Counter64
   }

docsIfCmtsDownChnlCtrId OBJECT-TYPE
   SYNTAX      Integer32 (0..255)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The Cable Modem Termination System identification
       of the downstream channel within this particular MAC
       interface.  If the interface is down, the object returns
       the most current value.  If the downstream channel ID is
       unknown, this object returns a value of 0."
   ::= { docsIfCmtsDownChannelCounterEntry 1 }
```

```
docsIfCmtsDownChnlCtrTotalBytes OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "Bytes"
   MAX-ACCESS  read-only
   STATUS      current
    DESCRIPTION
       "At the CMTS, the total number of bytes in the Payload
       portion of MPEG Packets (i.e., not including MPEG header
       or pointer_field) transported by this downstream channel.
       This is the 32-bit version of
       docsIfCmtsDownChnlCtrExtTotalBytes, included to provide
       back compatibility with SNMPv1 managers.
       Discontinuities in the value of this counter can occur




       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsDownChannelCounterEntry 2 }

docsIfCmtsDownChnlCtrUsedBytes OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "Bytes"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "At the CMTS, the total number of DOCSIS data bytes
       transported by this downstream channel.
       The number of data bytes is defined as the total
 number
       of bytes transported in DOCSIS payloads minus the number
       of stuff bytes transported in DOCSIS payloads.
       This is the 32-bit version of
       docsIfCmtsDownChnlCtrExtUsedBytes, included to provide
       back compatibility with SNMPv1 managers.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsDownChannelCounterEntry 3 }

docsIfCmtsDownChnlCtrExtTotalBytes OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "Bytes"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
```

```
        "At the CMTS, the total number of bytes in the Payload
        portion of MPEG Packets (i.e., not including MPEG header
        or pointer_field) transported by this downstream
        channel.
        This is the 64-bit version of

        docsIfCmtsDownChnlCtrTotalBytes and will not be
        accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 4 }

docsIfCmtsDownChnlCtrExtUsedBytes OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "Bytes"
    MAX-ACCESS  read-only



    STATUS      current
    DESCRIPTION
        "At the CMTS, the total number of DOCSIS data bytes
        transported by this downstream channel.  The number
        of data bytes is defined as the total number of bytes
        transported in DOCSIS payloads minus the number of
        stuff bytes transported in DOCSIS payloads.
        This is the 64-bit version of
        docsIfCmtsDownChnlCtrUsedBytes and will not be accessible
        to SNMPv1 managers.
         Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 5 }

-- The following table provides operators with input data appropriate
-- for calculating upstream channel utilization, and for determining
-- the traffic characteristics of upstream channels.  Operators may
-- use the docsIfCmtsChannelUtilizationTable or perform their own
-- polling of the docsIfCmtsUpChannelCounterTable objects for
-- utilization determination.
-- The first four 32 and 64 objects in this table are mandatory.
-- Vendors may choose to implement the remaining optional objects to
-- provide operators with finer characterization of upstream channel
-- traffic patterns.  The 32-bit counter objects are included to
-- provide backward compatibility with SNMPv1 managers, which cannot
```

```
-- access
 64-bit counter objects.

docsIfCmtsUpChannelCounterTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsUpChannelCounterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
       "This table is implemented at the CMTS to provide upstream
        channel statistics appropriate for channel utilization
        calculations."
   ::= { docsIfCmtsObjects 11 }

docsIfCmtsUpChannelCounterEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsUpChannelCounterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
       "List of traffic statistics for a single upstream channel.
        For DOCSIS 2.0 CMTSs, an entry in this table
        exists for each ifEntry with an ifType of
        docsCableUpstreamChannel (205).



        For DOCSIS 1.x CMTSs, an entry in this table
        exists for each ifEntry with an ifType of
        docsCableUpstream (129)."
   INDEX { ifIndex }
   ::= { docsIfCmtsUpChannelCounterTable 1 }

DocsIfCmtsUpChannelCounterEntry
 ::= SEQUENCE {
       docsIfCmtsUpChnlCtrId                    Integer32,
       docsIfCmtsUpChnlCtrTotalMslots           Counter32,
       docsIfCmtsUpChnlCtrUcastGrantedMslots    Counter32,
       docsIfCmtsUpChnlCtrTotalCntnMslots       Counter32,
       docsIfCmtsUpChnlCtrUsedCntnMslots        Counter32,
       docsIfCmtsUpChnlCtrExtTotalMslots        Counter64,
       docsIfCmtsUpChnlCtrExtUcastGrantedMslots Counter64,
       docsIfCmtsUpChnlCtrExtTotalCntnMslots    Counter64,
       docsIfCmtsUpChnlCtrExtUsedCntnMslots     Counter64,
       docsIfCmtsUpChnlCtrCollCntnMslots        Counter32,
       docsIfCmtsUpChnlCtrTotalCntnReqMslots    Counter32,
       docsIfCmtsUpChnlCtrUsedCntnReqMslots     Counter32,
       docsIfCmtsUpChnlCtrCollCntnReqMslots     Counter32,
       docsIfCmtsUpChnlCtrTotalCntnReqDataMslots Counter32,
       docsIfCmtsUpChnlCtrUsedCntnReqDataMslots
```

```
      Counter32,
      docsIfCmtsUpChnlCtrCollCntnReqDataMslots       Counter32,
      docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots    Counter32,
      docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots     Counter32,
      docsIfCmtsUpChnlCtrCollCntnInitMaintMslots     Counter32,
      docsIfCmtsUpChnlCtrExtCollCntnMslots           Counter64,
      docsIfCmtsUpChnlCtrExtTotalCntnReqMslots       Counter64,
      docsIfCmtsUpChnlCtrExtUsedCntnReqMslots        Counter64,
      docsIfCmtsUpChnlCtrExtCollCntnReqMslots        Counter64,
      docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots   Counter64,
      docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots    Counter64,
      docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots    Counter64,
      docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots Counter64,
      docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots  Counter64,
      docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots  Counter64
    }

docsIfCmtsUpChnlCtrId
 OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The CMTS identification of the upstream channel."
    ::= { docsIfCmtsUpChannelCounterEntry 1 }

docsIfCmtsUpChnlCtrTotalMslots OBJECT-TYPE
    SYNTAX      Counter32



    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of all mini-slots
         defined for this upstream logical channel.  This count
         includes all IUCs and SIDs, even those allocated to the
         NULL SID for a 2.0 logical channel that is inactive.  This
         is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalMslots
         and is included for back compatibility with SNMPv1
         managers.  Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at
 other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 2 }
```

```
docsIfCmtsUpChnlCtrUcastGrantedMslots OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Current count, from CMTS initialization, of unicast
       granted mini-slots on the upstream logical channel,
       regardless of burst type.  Unicast granted mini-slots are
       those in which the CMTS assigned bandwidth to any unicast
       SID on the logical channel.  However, this object does not
       include minis-lots for reserved IUCs, or grants to SIDs
       designated as meaning 'no CM'.  This is the 32-bit version
       of docsIfCmtsUpChnlCtrExtUcastGrantedMslots, and is
       included for back compatibility with SNMPv1 managers.
       Support for this object is mandatory.
       Discontinuities
 in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 3 }

docsIfCmtsUpChnlCtrTotalCntnMslots OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Current count, from CMTS initialization, of contention
       mini-slots defined for this upstream logical channel.  This
       count includes all mini-slots assigned to a broadcast or




       multicast SID on the logical channel.  This is the 32-bit
       version of docsIfCmtsUpChnlCtrExtTotalCntnMslots, and is
       included for back compatibility with SNMPv1 managers.
       Support for this object is mandatory.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed
 system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 4 }

docsIfCmtsUpChnlCtrUsedCntnMslots OBJECT-TYPE
```

```
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
         mini-slots utilized on the upstream logical channel.  For
         contention regions, utilized mini-slots are those in which
         the CMTS correctly received an upstream burst from any CM
         on the upstream logical channel.  This is the 32-bit
         version of docsIfCmtsUpChnlCtrExtUsedCntnMslots and is
         included for back compatibility with SNMPv1 managers.
         Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other

        times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 5 }

docsIfCmtsUpChnlCtrExtTotalMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of all mini-slots
         defined for this upstream logical channel.  This count
         includes all IUCs and SIDs, even those allocated to the
         NULL SID for a 2.0 logical channel that is inactive.  This
         is the 64-bit version of docsIfCmtsUpChnlCtrTotalMslots
         and will not be accessible to SNMPv1 managers.
         Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated
 ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 6 }



docsIfCmtsUpChnlCtrExtUcastGrantedMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```

"Current count, from CMTS initialization, of unicast
granted mini-slots on the upstream logical channel,
regardless of burst type. Unicast granted mini-slots are
those in which the CMTS assigned bandwidth to any unicast
SID on the logical channel. However, this object does not
include mini-slots for reserved IUCs, or grants to SIDs
designated as meaning 'no CM'. This is the 64-bit version
of docsIfCmtsUpChnlCtrUcastGrantedMslots and will not be
accessible to SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other

times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 7 }

docsIfCmtsUpChnlCtrExtTotalCntnMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
mini-slots defined for this upstream logical channel. This
count includes all mini-slots assigned to a broadcast or
multicast SID on the logical channel. This is the 64-bit
version of docsIfCmtsUpChnlCtrTotalCntnMslots and will
not be accessible to SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 8 }

docsIfCmtsUpChnlCtrExtUsedCntnMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention

mini-slots utilized on the upstream logical channel. For

```
        contention regions, utilized mini-slots are those in which
        the CMTS correctly received an upstream burst from any CM
        on the upstream logical channel.  This is the 64-bit
        version of docsIfCmtsUpChnlCtrUsedCntnMslots and will not
        be accessible to SNMPv1 managers.
        Support for this object is mandatory.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry
 9 }

docsIfCmtsUpChnlCtrCollCntnMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        mini-slots subjected to collisions on the upstream logical
        channel.  For contention regions, these are the mini-slots
        applicable to bursts that the CMTS detected but could not
        correctly receive.  This is the 32-bit version of
        docsIfCmtsUpChnlCtrExtCollCntnMslots and is included for
        back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 10 }

docsIfCmtsUpChnlCtrTotalCntnReqMslots OBJECT-TYPE
    SYNTAX      Counter32

  UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        request mini-slots defined for this upstream logical
        channel.  This count includes all mini-slots for IUC1
        assigned to a broadcast or multicast SID on the logical
        channel.  This is the 32-bit version of
        docsIfCmtsUpChnlCtrExtTotalCntnReqMslots and is included
        for back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
```

```
        times as indicated by the value of



        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 11 }

docsIfCmtsUpChnlCtrUsedCntnReqMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION

    "Current count, from CMTS initialization, of contention
        request mini-slots utilized on this upstream logical
        channel.  This count includes all contention mini-slots for
        IUC1 applicable to bursts that the CMTS correctly
        received.  This is the 32-bit version of
        docsIfCmtsUpChnlCtrExtUsedCntnReqMslots and is included
        for back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 12 }

docsIfCmtsUpChnlCtrCollCntnReqMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "Current count, from CMTS initialization, of contention
        request mini-slots subjected to collisions
 on this upstream
        logical channel.  This includes all contention mini-slots
        for IUC1 applicable to bursts that the CMTS detected but
        could not correctly receive.  This is the 32-bit version of
        docsIfCmtsUpChnlCtrExtCollCntnReqMslots and is included
        for back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 13 }

docsIfCmtsUpChnlCtrTotalCntnReqDataMslots OBJECT-TYPE
```

```
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention



         request data mini-slots defined for this upstream logical
         channel.  This count includes all
 mini-slots for IUC2
         assigned to a broadcast or multicast SID on the logical
         channel.  This is the 32-bit version of
         docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots and is
         included for back compatibility with SNMPv1 managers.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 14 }

docsIfCmtsUpChnlCtrUsedCntnReqDataMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
         request data mini-slots utilized on this upstream logical
         channel.  This includes all contention mini-slots for IUC2
         applicable to bursts that the CMTS correctly received.

        This is the 32-bit version of
         docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots and is
         included for back compatibility with SNMPv1 managers.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 15 }

docsIfCmtsUpChnlCtrCollCntnReqDataMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS detected, but could not correctly receive. This is the 32-bit version of docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots and is included for back compatibility with SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 16 }

docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention initial maintenance mini-slots defined for this upstream logical channel. This includes all mini-slots for IUC3 assigned to a broadcast or multicast SID on the logical channel. This is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots and is included for back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 17 }

docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention initial maintenance mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC3 applicable to bursts that the CMTS correctly

received. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots
and is included for back compatibility with SNMPv1
managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 18 }

docsIfCmtsUpChnlCtrCollCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Current count, from CMTS initialization, of contention
initial maintenance mini-slots subjected to collisions on
this upstream logical channel. This includes all
contention mini-slots for IUC3 applicable to bursts that
the CMTS detected, but could not correctly receive.
This is the 32-bit version of
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots
and is included for back compatibility with SNMPv1
managers.
Discontinuities in the value of this counter can occur
at reinitialization
of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 19 }

docsIfCmtsUpChnlCtrExtCollCntnMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of collision
contention mini-slots on the upstream logical channel.
For contention regions, these are the mini-slots applicable
to bursts that the CMTS detected, but could not correctly
receive. This is the 64-bit version of
docsIfCmtsUpChnlCtrCollCntnMslots and will not be
accessible to SNMPv1 managers.

Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime
for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 20 }

docsIfCmtsUpChnlCtrExtTotalCntnReqMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request mini-slots defined for this upstream logical
channel. This count includes all mini-slots for IUC1
assigned to a broadcast or multicast SID on the logical
channel. This is the 64-bit version of
docsIfCmtsUpChnlCtrTotalCntnReqMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 21 }

docsIfCmtsUpChnlCtrExtUsedCntnReqMslots
OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request mini-slots utilized on this upstream logical
channel. This count includes all contention mini-slots for
IUC1 applicable to bursts that the CMTS correctly
received. This is the 64-bit version of
docsIfCmtsUpChnlCtrUsedCntnReqMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 22 }

```
docsIfCmtsUpChnlCtrExtCollCntnReqMslots OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS
    current
   DESCRIPTION
      "Current count, from CMTS initialization, of contention
       request mini-slots subjected to collisions on this upstream
       logical channel.  This includes all contention mini-slots
       for IUC1 applicable to bursts that the CMTS detected,
       but could not correctly receive.  This is the 64-bit
       version of docsIfCmtsUpChnlCtrCollCntnReqMslots and will
       not be accessible to SNMPv1 managers.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 23 }

docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS      current



   DESCRIPTION
      "Current count, from CMTS initialization,
 of contention
       request data mini-slots defined for this upstream logical
       channel.  This count includes all mini-slots for IUC2
       assigned to a broadcast or multicast SID on the logical
       channel.  This is the 64-bit version of
       docsIfCmtsUpChnlCtrTotalCntnReqDataMslots and will not be
       accessible to SNMPv1 managers.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 24 }

docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        request data mini-slots utilized on this upstream logical
        channel.  This
 includes all contention mini-slots for IUC2
        applicable to bursts that the CMTS correctly received.
        This is the 64-bit version of
        docsIfCmtsUpChnlCtrUsedCntnReqDataMslots and will not be
        accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 25 }

docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        request data mini-slots subjected to collisions on this
        upstream logical channel.  This includes all contention
        mini-slots for IUC2 applicable to bursts that the CMTS

       detected, but could not correctly receive.  This is the
        64-bit version of
        docsIfCmtsUpChnlCtrCollCntnReqDataMslots
        and will not be accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur



        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 26 }

docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of initial
        maintenance mini-slots defined for this upstream logical
```

channel. This count includes all mini-slots for IUC3
assigned to a broadcast or multicast SID on the logical
channel. This is the 64-bit version of
docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots
and will not be accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 27 }

docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of initial
maintenance mini-slots utilized on this upstream logical
channel. This includes all contention mini-slots for IUC3
applicable to bursts that the CMTS correctly received.
This is the 64-bit version of
docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots
and will not be accessible to SNMPv1 managers.
Discontinuities
in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 28 }

docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"Current count, from CMTS initialization, of contention
initial maintenance mini-slots subjected to collisions on
this upstream logical channel. This includes all
contention mini-slots for IUC3 applicable to bursts that
the CMTS detected, but could not correctly receive.
This is the 64-bit version of
docsIfCmtsUpChnlCtrCollCntnInitMaintMslots and will not
be accessible to SNMPv1 managers.

```
        Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 29 }

--
-- notification group is for future extension.
--

docsIfNotification OBJECT IDENTIFIER     ::= { docsIfMib 2 }

--
-- MIB Compliance statements.
--

--
-- Conformance definitions
--

docsIfConformance  OBJECT IDENTIFIER     ::= { docsIfMib 3 }
docsIfCompliances  OBJECT IDENTIFIER     ::= { docsIfConformance 1 }
docsIfGroups       OBJECT IDENTIFIER     ::= { docsIfConformance 2 }

docsIfBasicCompliance MODULE-COMPLIANCE
    STATUS      deprecated
    DESCRIPTION
        "The compliance statement for devices that implement
        DOCSIS 1.x compliant Radio Frequency Interfaces."

MODULE  -- docsIfMib

-- unconditionally mandatory groups
MANDATORY-GROUPS {
    docsIfBasicGroup
    }

-- conditionally mandatory group
GROUP docsIfCmGroup



    DESCRIPTION
        "This group is implemented only in cable modems, not in
        cable modem termination systems."

-- conditionally mandatory group
GROUP docsIfCmtsGroup
```

```
    DESCRIPTION
        "This group is implemented only in cable modem termination
         systems, not in cable modems."

OBJECT  docsIfDownChannelFrequency
    WRITE-SYNTAX Integer32 (54000000..860000000)
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
         read-only in cable modems.  The values above are
         appropriate for a cable plant using a Sub-Split channel
         plan.  If DOCSIS is extended to cover other types of
         channel plans (and frequency allocations), this object
         will be modified accordingly."

OBJECT  docsIfDownChannelWidth
    WRITE-SYNTAX Integer32 (6000000)
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is important to implement this object as read-only.
         In cable modems, this object is always
 implemented as
         read-only.  The above value is appropriate for cable
         plants running under NTSC (National Television
         Standards Committee) standards.  If DOCSIS is extended to
         work with other standards (e.g., European standards), this
         object will be modified accordingly."

OBJECT  docsIfDownChannelModulation
    WRITE-SYNTAX INTEGER {
                    qam64 (3),
                    qam256 (4)
                   }
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
         read-only in cable modems."

OBJECT  docsIfDownChannelInterleave
    WRITE-SYNTAX INTEGER {
             taps8Increment16(3),
             taps16Increment8(4),
             taps32Increment4(5),



             taps64Increment2(6),
             taps128Increment1(7)
```

```
            }
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination
 systems;
        read-only in cable modems."

OBJECT  docsIfDownChannelPower
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
        read-only in cable modems."

OBJECT  docsIfUpChannelFrequency
    WRITE-SYNTAX Integer32 (5000000..42000000)
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
        read-only in cable modems.  The values above are
        appropriate for a cable plant using a Sub-Split channel
        plan.  If DOCSIS is extended to cover other types of
        channel plans (and frequency allocations), this object
        will be modified accordingly."

OBJECT  docsIfUpChannelWidth
    WRITE-SYNTAX Integer32 (200000..3200000)
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
        read-only in cable modems.  The above value is appropriate
        for cable plants running under NTSC (National Television
         Standards Committee) standards.  If DOCSIS is extended to
        work with other standards (e.g., European standards), this
        object will be modified accordingly."

OBJECT  docsIfUpChannelModulationProfile
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-write in cable modem termination systems;
        read-only in cable modems."

OBJECT  docsIfUpChannelSlotSize
    MIN-ACCESS  read-only
    DESCRIPTION
        "This object is always read-only in cable modems.
        It is compliant to implement this object as read-only
        in cable modem termination systems."
```

```
OBJECT  docsIfUpChannelRangingBackoffStart
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelRangingBackoffEnd
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelTxBackoffStart
    MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelTxBackoffEnd
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfQosProfPriority
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfQosProfMaxUpBandwidth
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfQosProfGuarUpBandwidth
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant
 to implement this object as read-only
       in cable modem termination systems."
```

```
OBJECT  docsIfQosProfMaxDownBandwidth
   MIN-ACCESS  read-only
   DESCRIPTION


        "This object is always read-only in cable modems.
         It is compliant to implement this object as read-only
         in cable modem termination systems."

OBJECT  docsIfQosProfMaxTxBurst
   MIN-ACCESS  read-only
   DESCRIPTION
        "This object is always read-only in cable modems.
         It is compliant to implement this object as read-only
         in cable modem termination systems."

OBJECT  docsIfQosProfBaselinePrivacy
   MIN-ACCESS  read-only
   DESCRIPTION
        "This object is always read-only in cable modems.
         It is compliant to implement this object as read-only
         in cable modem termination systems."

OBJECT  docsIfQosProfStatus
   MIN-ACCESS  read-only
   DESCRIPTION
        "This object is always read-only in cable modems.
         It is compliant
 to implement this object as read-only
         in cable modem termination systems."

OBJECT  docsIfCmtsServiceAdminStatus
   MIN-ACCESS  read-only
   DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsSyncInterval
   MIN-ACCESS  read-only
   DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsUcdInterval
   MIN-ACCESS  read-only
   DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInsertInterval
```

```
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInvitedRangingAttempts
    MIN-ACCESS  read-only
    DESCRIPTION



        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsQosProfilePermissions
    WRITE-SYNTAX     BITS {
        createByManagement(0),
        updateByManagement(1)
       }
    MIN-ACCESS  read-only
    DESCRIPTION
         "It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType
    WRITE-SYNTAX INTEGER {
                qpsk (2),
                qam16 (3)
                 }
    DESCRIPTION
        "A management station MAY only set 16QAM or QPSK modulation,
         but others might be possible, based on device
         configuration."

OBJECT  docsIfCmtsModPreambleLen
    SYNTAX Integer32 (0..1024)
    DESCRIPTION
        "The range of the values for this MODULE-COMPLIANCE
         is 0..1024."

OBJECT  docsIfCmtsModFECErrorCorrection
       SYNTAX Integer32 (0..10)
       DESCRIPTION
          "The range of the values for this MODULE-COMPLIANCE
           is 0..10."

    ::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE
    STATUS      current
    DESCRIPTION
```

```
        "The compliance statement for devices that implement
         DOCSIS 2.0 Radio Frequency Interfaces."

MODULE  -- docsIfMib

-- unconditionally
 mandatory groups
MANDATORY-GROUPS {
   docsIfBasicGroupV2
   }




-- conditionally mandatory group
GROUP docsIfCmGroupV2
   DESCRIPTION
      "This group is implemented only in cable modems, not in
       cable modem termination systems."

-- conditionally mandatory group
GROUP docsIfCmtsGroupV2
   DESCRIPTION
      "This group is implemented only in cable modem termination
       systems, not in cable modems."


OBJECT  docsIfDownChannelFrequency
   WRITE-SYNTAX Integer32 (47000000..862000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems.
       A range of 54MHz to 860MHz is appropriate for a cable
       plant using a North American Sub-Split channel plan.
       The spectrum range has been expanded to accommodate
       a lower edge of 47MHz and an upper edge of 862MHz
       for some European channel plans.
       If DOCSIS is extended to cover other
 types of channel
       plans (and frequency allocations), this object will be
       modified accordingly."

OBJECT  docsIfDownChannelWidth
   WRITE-SYNTAX Integer32 (6000000 | 8000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is important to implement this object as read-only.
```

```
        In cable modems, this object is always implemented as
        read-only.  The value of 6 MHz is appropriate for cable
        plants running under NTSC (National Television
        Standards Committee) standards.  The value of 8 MHz is
        appropriate for cable plants running under ETSI
        standards.  For other regional standards, this
        object will be modified accordingly."

OBJECT  docsIfDownChannelModulation
   WRITE-SYNTAX INTEGER {
                    qam64 (3),
                    qam256 (4)
                   }
   MIN-ACCESS  read-only
   DESCRIPTION



      "Read-write in cable modem termination systems;

     read-only in cable modems."

OBJECT  docsIfDownChannelInterleave
   WRITE-SYNTAX INTEGER {
            taps8Increment16(3),
            taps16Increment8(4),
            taps32Increment4(5),
            taps64Increment2(6),
            taps128Increment1(7),
            taps12increment17(8)
             }
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfDownChannelPower
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelFrequency
   WRITE-SYNTAX Integer32 (5000000..65000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems.
```

A range of 5MHz to 42MHz is appropriate for a cable
plant using a North American Sub-Split channel plan.
The spectrum range has been expanded to accommodate
an upper edge of 65MHz for some European channel plans.
If DOCSIS is extended to cover other types of channel
plans (and frequency allocations), this object will
be modified accordingly."

OBJECT docsIfUpChannelWidth
WRITE-SYNTAX Integer32 (200000..6400000)
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems,
read-only in cable modems. The above value is appropriate
for cable plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart

```
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems."

OBJECT  docsIfUpChannelTxBackoffEnd
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems."

OBJECT  docsIfUpChannelScdmaActiveCodes
    MIN-ACCESS
  read-only
    DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems.
         The number of active codes when SCDMA is in use MUST range
         from 64 to 128 and MUST be a non-Prime value.
         Providing this range allows for the following features
         and capabilities:
           1) Power management in S-CDMA spreader-on frames
              (with a 3 dB spread).



           2) Avoidance of code 0.
           3) Flexible mini-slot sizes with and without the use of
              code 0."

OBJECT  docsIfUpChannelScdmaCodesPerSlot
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems."

OBJECT  docsIfUpChannelScdmaFrameSize
    MIN-ACCESS  read-only
    DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems."

OBJECT  docsIfUpChannelScdmaHoppingSeed
    MIN-ACCESS  read-only
     DESCRIPTION
        "Read-create in cable modem termination systems;
         read-only in cable modems."
```

OBJECT docsIfUpChannelCloneFrom
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelUpdate
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelStatus
MIN-ACCESS read-only
DESCRIPTION
"Read-create in Cable Modem Termination Systems;
read-only in Cable Modems.
Entries associated to physical interfaces only support
the read-only value 'active'."

OBJECT docsIfUpChannelPreEqEnable
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority
MIN-ACCESS read-only

DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.

```
        It is compliant to implement this object as read-only
        in cable modem termination systems."

OBJECT  docsIfQosProfMaxDownBandwidth
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfQosProfBaselinePrivacy
   MIN-ACCESS  read-only
    DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfQosProfStatus
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfQosProfMaxTransmitBurst
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."



OBJECT  docsIfCmRangingTimeout
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType
  SYNTAX        INTEGER {
     unknown(0),
     tdma(1),
     atdma(2),
     scdma(3)
  }
   DESCRIPTION
```

"CM does not use both modulation burst profiles of a
'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma'is
not supported."

OBJECT docsIfCmtsServiceAdminStatus
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsSyncInterval
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsUcdInterval
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInsertInterval
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsInvitedRangingAttempts
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsQosProfilePermissions
WRITE-SYNTAX BITS {
createByManagement(0),
updateByManagement(1)
}
MIN-ACCESS read-only

DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType
WRITE-SYNTAX INTEGER {
qpsk(2),
qam16(3),
qam64(6)
}
DESCRIPTION

```
        "A management station MAY only set 64QAM, 16QAM, or QPSK
         modulation for Time or Code division Multiple Access,
         but others might be possible based on device
         configuration."

OBJECT docsIfCmtsCmStatusModulationType
  SYNTAX         INTEGER {
      unknown(0),
      tdma(1),
      atdma(2),
      scdma(3)
  }
   DESCRIPTION
      "CM does not use both modulation burst profiles of a
       'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma'is
       not supported."

   ::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP
   OBJECTS {
      docsIfDownChannelId,
      docsIfDownChannelFrequency,
      docsIfDownChannelWidth,
      docsIfDownChannelModulation,
       docsIfDownChannelInterleave,
      docsIfDownChannelPower,
      docsIfUpChannelId,
      docsIfUpChannelFrequency,
      docsIfUpChannelWidth,
      docsIfUpChannelModulationProfile,
      docsIfUpChannelSlotSize,
      docsIfUpChannelTxTimingOffset,
      docsIfUpChannelRangingBackoffStart,
      docsIfUpChannelRangingBackoffEnd,
      docsIfUpChannelTxBackoffStart,
      docsIfUpChannelTxBackoffEnd,
      docsIfQosProfPriority,



      docsIfQosProfMaxUpBandwidth,
      docsIfQosProfGuarUpBandwidth,
      docsIfQosProfMaxDownBandwidth,
      docsIfQosProfMaxTxBurst,
      docsIfQosProfBaselinePrivacy,
      docsIfQosProfStatus,
      docsIfSigQIncludesContention,
```

```
        docsIfSigQUnerroreds,
        docsIfSigQCorrecteds,
        docsIfSigQUncorrectables,
        docsIfSigQSignalNoise,
        docsIfSigQMicroreflections,
        docsIfSigQEqualizationData
    }
    STATUS      deprecated
    DESCRIPTION
        "Group of objects implemented in both cable modems and
        cable modem termination systems."
    ::= { docsIfGroups 1 }

docsIfCmGroup OBJECT-GROUP
    OBJECTS {
        docsIfCmCmtsAddress,
        docsIfCmCapabilities,
        docsIfCmRangingTimeout,
        docsIfCmStatusValue,
        docsIfCmStatusCode,
        docsIfCmStatusTxPower,
        docsIfCmStatusResets,
        docsIfCmStatusLostSyncs,
        docsIfCmStatusInvalidMaps,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
        docsIfCmStatusRangingAborteds,
        docsIfCmServiceQosProfile,
        docsIfCmServiceTxSlotsImmed,
        docsIfCmServiceTxSlotsDed,
        docsIfCmServiceTxRetries,
        docsIfCmServiceTxExceededs,
        docsIfCmServiceRqRetries,
        docsIfCmServiceRqExceededs
    }
    STATUS      deprecated



    DESCRIPTION
        "Group of objects implemented in cable modems."
    ::= { docsIfGroups 2 }
```

```
docsIfCmtsGroup OBJECT-GROUP
   OBJECTS {
      docsIfCmtsCapabilities,
      docsIfCmtsSyncInterval,
      docsIfCmtsUcdInterval,
      docsIfCmtsMaxServiceIds,
      docsIfCmtsInvitedRangingAttempts,
      docsIfCmtsInsertInterval,
      docsIfCmtsStatusInvalidRangeReqs,
      docsIfCmtsStatusRangingAborteds,
      docsIfCmtsStatusInvalidRegReqs,
      docsIfCmtsStatusFailedRegReqs,
      docsIfCmtsStatusInvalidDataReqs,
      docsIfCmtsStatusT5Timeouts,
      docsIfCmtsCmStatusMacAddress,
      docsIfCmtsCmStatusIpAddress,
      docsIfCmtsCmStatusDownChannelIfIndex,
      docsIfCmtsCmStatusUpChannelIfIndex,
      docsIfCmtsCmStatusRxPower,
      docsIfCmtsCmStatusTimingOffset,
      docsIfCmtsCmStatusEqualizationData,
      docsIfCmtsCmStatusValue,
       docsIfCmtsCmStatusUnerroreds,
      docsIfCmtsCmStatusCorrecteds,
      docsIfCmtsCmStatusUncorrectables,
      docsIfCmtsCmStatusSignalNoise,
      docsIfCmtsCmStatusMicroreflections,
      docsIfCmtsServiceCmStatusIndex,
      docsIfCmtsServiceAdminStatus,
      docsIfCmtsServiceQosProfile,
      docsIfCmtsServiceCreateTime,
      docsIfCmtsServiceInOctets,
      docsIfCmtsServiceInPackets,
      docsIfCmtsModType,
      docsIfCmtsModControl,
      docsIfCmtsModPreambleLen,
      docsIfCmtsModDifferentialEncoding,
      docsIfCmtsModFECErrorCorrection,
      docsIfCmtsModFECCodewordLength,
      docsIfCmtsModScramblerSeed,
      docsIfCmtsModMaxBurstSize,
      docsIfCmtsModGuardTimeSize,
      docsIfCmtsModLastCodewordShortened,
      docsIfCmtsModScrambler,



      docsIfCmtsQosProfilePermissions,
```

```
        docsIfCmtsCmPtr
    }
    STATUS      deprecated
    DESCRIPTION
        "Group of objects
 implemented in Cable Modem Termination
         Systems."
    ::= { docsIfGroups 3 }

-- obsolete group
-- RFC 2670 already had a obsolete group, even though RFC2670
-- was the first version of this MIB Module.

docsIfObsoleteGroup OBJECT-GROUP
    OBJECTS {
        docsIfCmRangingRespTimeout,
        docsIfCmtsInsertionInterval
    }
    STATUS      obsolete
    DESCRIPTION
        "Group of objects obsoleted."
    ::= { docsIfGroups 4 }

docsIfBasicGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfDownChannelId,
        docsIfDownChannelFrequency,
        docsIfDownChannelWidth,
        docsIfDownChannelModulation,
        docsIfDownChannelInterleave,
        docsIfDownChannelPower,
        docsIfDownChannelAnnex,
        docsIfUpChannelId,
        docsIfUpChannelFrequency,
        docsIfUpChannelWidth,
        docsIfUpChannelModulationProfile,
        docsIfUpChannelSlotSize,
        docsIfUpChannelTxTimingOffset,
        docsIfUpChannelRangingBackoffStart,
         docsIfUpChannelRangingBackoffEnd,
        docsIfUpChannelTxBackoffStart,
        docsIfUpChannelTxBackoffEnd,
        docsIfUpChannelScdmaActiveCodes,
        docsIfUpChannelScdmaCodesPerSlot,
        docsIfUpChannelScdmaFrameSize,
        docsIfUpChannelScdmaHoppingSeed,
        docsIfUpChannelType,
        docsIfUpChannelCloneFrom,
```

```
        docsIfUpChannelUpdate,
        docsIfUpChannelStatus,
        docsIfUpChannelPreEqEnable,
        docsIfQosProfPriority,
        docsIfQosProfMaxUpBandwidth,
        docsIfQosProfGuarUpBandwidth,
        docsIfQosProfMaxDownBandwidth,
        docsIfQosProfBaselinePrivacy,
        docsIfQosProfStatus,
        docsIfQosProfMaxTransmitBurst,
        docsIfSigQIncludesContention,
        docsIfSigQUnerroreds,
        docsIfSigQCorrecteds,
        docsIfSigQUncorrectables,
        docsIfSigQSignalNoise,
        docsIfSigQMicroreflections,
        docsIfSigQExtUnerroreds,
        docsIfSigQExtCorrecteds,
        docsIfSigQExtUncorrectables,
         docsIfDocsisBaseCapability
    }
    STATUS      current
    DESCRIPTION
        "Group of objects implemented in both cable modems and
         cable modem termination systems."
    ::= { docsIfGroups 5 }

docsIfCmGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfCmCmtsAddress,
        docsIfCmCapabilities,
        docsIfCmRangingTimeout,
        docsIfCmStatusValue,
        docsIfCmStatusCode,
        docsIfCmStatusTxPower,
        docsIfCmStatusResets,
        docsIfCmStatusLostSyncs,
        docsIfCmStatusInvalidMaps,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
```

```
        docsIfCmStatusRangingAborteds,
        docsIfCmStatusDocsisOperMode,
        docsIfCmStatusModulationType,



        docsIfCmStatusEqualizationData,
         docsIfCmStatusUCCs,
        docsIfCmStatusUCCFails,
        docsIfCmServiceQosProfile,
        docsIfCmServiceTxSlotsImmed,
        docsIfCmServiceTxSlotsDed,
        docsIfCmServiceTxRetries,
        docsIfCmServiceTxExceededs,
        docsIfCmServiceRqRetries,
        docsIfCmServiceRqExceededs,
        docsIfCmServiceExtTxSlotsImmed,
        docsIfCmServiceExtTxSlotsDed,
        docsIfSigQEqualizationData
    }
    STATUS      current
    DESCRIPTION
        "Group of objects implemented in cable modems."
    ::= { docsIfGroups 6 }

docsIfCmtsGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfCmtsCapabilities,
        docsIfCmtsSyncInterval,
        docsIfCmtsUcdInterval,
        docsIfCmtsMaxServiceIds,
        docsIfCmtsInvitedRangingAttempts,
        docsIfCmtsInsertInterval,
        docsIfCmtsMacStorageType,
        docsIfCmtsStatusInvalidRangeReqs,
        docsIfCmtsStatusRangingAborteds,
        docsIfCmtsStatusInvalidRegReqs,
         docsIfCmtsStatusFailedRegReqs,
        docsIfCmtsStatusInvalidDataReqs,
        docsIfCmtsStatusT5Timeouts,
        docsIfCmtsCmStatusMacAddress,
        docsIfCmtsCmStatusDownChannelIfIndex,
        docsIfCmtsCmStatusUpChannelIfIndex,
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
        docsIfCmtsCmStatusValue,
        docsIfCmtsCmStatusUnerroreds,
```

docsIfCmtsCmStatusCorrecteds,
docsIfCmtsCmStatusUncorrectables,
docsIfCmtsCmStatusSignalNoise,
docsIfCmtsCmStatusMicroreflections,
docsIfCmtsCmStatusExtUnerroreds,
docsIfCmtsCmStatusExtCorrecteds,

docsIfCmtsCmStatusExtUncorrectables,
docsIfCmtsCmStatusDocsisRegMode,
docsIfCmtsCmStatusModulationType,
docsIfCmtsCmStatusInetAddressType,
docsIfCmtsCmStatusInetAddress,
docsIfCmtsCmStatusValueLastUpdate,
docsIfCmtsCmStatusHighResolutionTimingOffset,
docsIfCmtsServiceAdminStatus,
docsIfCmtsServiceQosProfile,
docsIfCmtsServiceCreateTime,
docsIfCmtsServiceInOctets,
docsIfCmtsServiceInPackets,
docsIfCmtsServiceNewCmStatusIndex,
docsIfCmtsModType,
docsIfCmtsModControl,
docsIfCmtsModPreambleLen,
docsIfCmtsModDifferentialEncoding,
docsIfCmtsModFECErrorCorrection,
docsIfCmtsModFECCodewordLength,
docsIfCmtsModScramblerSeed,
docsIfCmtsModMaxBurstSize,
docsIfCmtsModGuardTimeSize,
docsIfCmtsModLastCodewordShortened,
docsIfCmtsModScrambler,
docsIfCmtsModByteInterleaverDepth,
docsIfCmtsModByteInterleaverBlockSize,
docsIfCmtsModPreambleType,
docsIfCmtsModTcmErrorCorrectionOn,
docsIfCmtsModScdmaInterleaverStepSize,
docsIfCmtsModScdmaSpreaderEnable,
docsIfCmtsModScdmaSubframeCodes,
docsIfCmtsModChannelType,

docsIfCmtsModStorageType,
docsIfCmtsQosProfilePermissions,
docsIfCmtsCmPtr,
docsIfCmtsChannelUtilizationInterval,
docsIfCmtsChannelUtUtilization,
docsIfCmtsDownChnlCtrId,

```
        docsIfCmtsDownChnlCtrTotalBytes,
        docsIfCmtsDownChnlCtrUsedBytes,
        docsIfCmtsDownChnlCtrExtTotalBytes,
        docsIfCmtsDownChnlCtrExtUsedBytes,
        docsIfCmtsUpChnlCtrId,
        docsIfCmtsUpChnlCtrTotalMslots,
        docsIfCmtsUpChnlCtrUcastGrantedMslots,
        docsIfCmtsUpChnlCtrTotalCntnMslots,
        docsIfCmtsUpChnlCtrUsedCntnMslots,
        docsIfCmtsUpChnlCtrExtTotalMslots,



        docsIfCmtsUpChnlCtrExtUcastGrantedMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnMslots,
        docsIfCmtsUpChnlCtrCollCntnMslots,
        docsIfCmtsUpChnlCtrTotalCntnReqMslots,
        docsIfCmtsUpChnlCtrUsedCntnReqMslots,
        docsIfCmtsUpChnlCtrCollCntnReqMslots,
        docsIfCmtsUpChnlCtrTotalCntnReqDataMslots,
         docsIfCmtsUpChnlCtrUsedCntnReqDataMslots,
        docsIfCmtsUpChnlCtrCollCntnReqDataMslots,
        docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrCollCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtCollCntnMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnReqMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnReqMslots,
        docsIfCmtsUpChnlCtrExtCollCntnReqMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots,
        docsIfDownChannelStorageType,
        docsIfQosProfStorageType

    }
    STATUS      current
    DESCRIPTION
        "Group of objects implemented in Cable Modem
 Termination
         Systems."
    ::= { docsIfGroups 7 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB
No license file was found, but licenses were detected in source scan.

SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  OBJECT-IDENTITY,
  snmpModules   FROM SNMPv2-SMI
  TEXTUAL-CONVENTION   FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP   FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY
  LAST-UPDATED "200210140000Z"
  ORGANIZATION "SNMPv3 Working Group"
  CONTACT-INFO "WG-EMail: snmpv3@lists.tislabs.com
          Subscribe: snmpv3-request@lists.tislabs.com

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"

DESCRIPTION "The SNMP Management Architecture MIB

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version of this MIB module is part of RFC 3411;
see the RFC itself for full legal notices.
"

REVISION "200210140000Z" -- 14 October 2002
DESCRIPTION "Changes in this revision:
- Updated various administrative information.
- Corrected some typos.
- Corrected typo in description of SnmpEngineID
that led to range overlap for 127.
- Changed '255a' to '255t' in definition of
SnmpAdminString to align with current SMI.
- Reworded 'reserved' for value zero in
DESCRIPTION of SnmpSecurityModel.
- The algorithm for allocating security models
should give
256 per enterprise block, rather
than 255.
- The example engine ID of 'abcd' is not
legal. Replaced with '800002b804616263'H based
on example enterprise 696, string 'abc'.
- Added clarification that engineID should
persist across re-initializations.
This revision published as RFC 3411.
"
REVISION "199901190000Z" -- 19 January 1999
DESCRIPTION "Updated editors' addresses, fixed typos.
Published as RFC 2571.
"
REVISION "199711200000Z" -- 20 November 1997
DESCRIPTION "The initial version, published in RFC 2271.
"
::= { snmpModules 10 }

-- Textual Conventions used in the SNMP Management Architecture ***

SnmpEngineID ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "An SNMP engine's
administratively-unique identifier.
Objects of this type are for identification, not for
addressing, even though it is possible that an
address may have been used in the generation of
a specific value.

The value for this object may not be all zeros or
all 'ff'H or the empty (zero length) string.

The initial value for this object may be configured
via an operator console entry or via an algorithmic
function. In the latter case, the following
example algorithm is recommended.

In cases where there are multiple engines on the
same system, the use of this algorithm is NOT
appropriate, as it would result in all of those
engines ending up with the same ID value.

1) The very first bit is used to indicate how the

rest of the data is composed.

0 - as defined by enterprise using former methods
that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3
below.

Note that this allows existing uses of the
engineID (also known as AgentID [RFC1910]) to
co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary
equivalent of the agent's SNMP management
private enterprise number as assigned by the
Internet Assigned Numbers Authority (IANA).
For example, if Acme Networks has been assigned
{ enterprises 696 }, the first four octets would

be assigned '000002b8'H.

The remaining eight octets
are determined via
one or more enterprise-specific methods. Such
methods must be designed so as to maximize the
possibility that the value of this object will
be unique in the agent's administrative domain.
For example, it may be the IP address of the SNMP
entity, or the MAC address of one of the
interfaces, with each address suitably padded
with random octets. If multiple methods are
defined, then it is recommended that the first
octet indicate the method being used and the
remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary
equivalent of the agent's SNMP management
private enterprise number as assigned by the
Internet Assigned Numbers Authority (IANA).
For example, if Acme Networks has been assigned
{ enterprises 696 }, the first four octets would
be assigned '000002b8'H.

The very first bit is set to 1. For example, the
above value for Acme Networks now changes to be
'800002b8'H.

The fifth octet indicates how the rest (6th and
following octets) are formatted. The values for
the fifth octet are:

0 - reserved, unused.

1 - IPv4 address (4 octets)
lowest non-special IP address

2 - IPv6 address (16 octets)
lowest non-special IP address

3 - MAC address (6 octets)
lowest IEEE MAC address, canonical

order

4 - Text, administratively assigned
Maximum remaining length 27

5 - Octets, administratively assigned
Maximum remaining length 27

6-127 - reserved, unused

128-255 - as defined by the enterprise
Maximum remaining length 27
"
SYNTAX OCTET STRING (SIZE(5..32))

SnmpSecurityModel ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "An identifier that uniquely identifies a
Security Model of the Security Subsystem within
this SNMP Management Architecture.

The values for securityModel are allocated as
follows:

- The zero value does not identify any particular
security model.

- Values between 1 and 255, inclusive,
are reserved
for standards-track Security Models and are
managed by the Internet Assigned Numbers Authority
(IANA).
- Values greater than 255 are allocated to
enterprise-specific Security Models. An
enterprise-specific securityModel value is defined
to be:

enterpriseID * 256 + security model within
enterprise

For example, the fourth Security Model defined by the enterprise whose enterpriseID is 1 would be 259.

This scheme for allocation of securityModel values allows for a maximum of 255 standards-based Security Models, and for a maximum of 256 Security Models per enterprise.

It is believed that the assignment of new securityModel values will be rare in practice because the larger the number of simultaneously utilized Security Models, the larger the chance that interoperability will suffer. Consequently, it is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard securityModels. This limits the ability to define new proprietary implementations of Security Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the securityModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of securityModel defined for use with SNMP or reserved for use with supporting MIB objects. They are as follows:

0 reserved for 'any'
1 reserved for SNMPv1
2 reserved for SNMPv2c

3 User-Based Security Model (USM)
"
SYNTAX INTEGER(0 .. 2147483647)

SnmpMessageProcessingModel ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "An identifier that uniquely identifies a Message
Processing Model of the Message Processing
Subsystem within this SNMP Management
Architecture.

The values for messageProcessingModel are
allocated as follows:

- Values between 0 and 255, inclusive, are
reserved for standards-track Message Processing
Models and are managed by the Internet Assigned
Numbers Authority (IANA).

- Values greater than 255 are allocated to
enterprise-specific Message Processing Models.
An enterprise messageProcessingModel value is
defined to be:

enterpriseID * 256 +
messageProcessingModel within enterprise

For example, the fourth Message Processing Model
defined by the enterprise whose enterpriseID

is 1 would be 259.

This scheme for allocating messageProcessingModel
values allows for a maximum of 255 standards-
based Message Processing Models, and for a
maximum of 256 Message Processing Models per
enterprise.

It is believed that the assignment of new
messageProcessingModel values will be rare
in practice because the larger the number of
simultaneously utilized Message Processing Models,
the larger the chance that interoperability
will suffer. It is believed that such a range
will be sufficient. In the unlikely event that

the standards committee finds this number to be
insufficient over time, an enterprise number
can be allocated to obtain an additional 256
possible values.

Note that the most significant bit must be zero;
hence, there are 23 bits allocated for various
organizations to design and define non-standard
messageProcessingModels. This limits the ability
to define new proprietary implementations of
Message Processing Models to the first 8,388,608
enterprises.

It is worthwhile to note that, in its encoded
form, the messageProcessingModel value will
normally require only a single byte since, in
practice, the leftmost bits will be zero for
most messages and sign extension is suppressed
by the encoding rules.

As of this writing, there are several values of
messageProcessingModel defined for use with SNMP.
They are as follows:

0 reserved for SNMPv1
1 reserved for SNMPv2c
2 reserved for SNMPv2u and SNMPv2*
3 reserved for SNMPv3
"
SYNTAX INTEGER(0 .. 2147483647)

SnmpSecurityLevel
::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "A Level of Security at which SNMP messages can be
sent or with which operations are being processed;
in particular, one of:

noAuthNoPriv - without authentication and
without privacy,
authNoPriv - with authentication but
without privacy,
authPriv - with authentication and

with privacy.

These three values are ordered such that
noAuthNoPriv is less than authNoPriv and
authNoPriv is less than authPriv.
"
SYNTAX INTEGER { noAuthNoPriv(1),
authNoPriv(2),
authPriv(3)
}

SnmpAdminString ::= TEXTUAL-CONVENTION
DISPLAY-HINT "255t"
STATUS
current
DESCRIPTION "An octet string containing administrative
information, preferably in human-readable form.

To facilitate internationalization, this
information is represented using the ISO/IEC
IS 10646-1 character set, encoded as an octet
string using the UTF-8 transformation format
described in [RFC2279].

Since additional code points are added by
amendments to the 10646 standard from time
to time, implementations must be prepared to
encounter any code point from 0x00000000 to
0x7fffffff. Byte sequences that do not
correspond to the valid UTF-8 encoding of a
code point or are outside this range are
prohibited.

The use of control codes should be avoided.

When it is necessary to represent a newline,

the control code sequence CR LF should be used.

The use of leading or trailing white space should
be avoided.

For code points not directly supported by user
interface hardware or software, an alternative
means of entry and display, such as hexadecimal,

```
            may be provided.

            For information encoded in 7-bit US-ASCII,
            the UTF-8 encoding is identical to the
            US-ASCII encoding.

            UTF-8 may require multiple bytes to represent a
            single character / code point; thus the length
            of this object in octets may be different from
            the number of characters encoded.  Similarly,
            size constraints refer to the number of encoded
            octets, not the number of characters represented
            by an encoding.

            Note that when this
 TC is used for an object that
            is used or envisioned to be used as an index, then
            a SIZE restriction MUST be specified so that the
            number of sub-identifiers for any object instance
            does not exceed the limit of 128, as defined by
            [RFC3416].

            Note that the size of an SnmpAdminString object is
            measured in octets, not characters.
           "
  SYNTAX       OCTET STRING (SIZE (0..255))


-- Administrative assignments ****************************************

snmpFrameworkAdmin
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 1 }
snmpFrameworkMIBObjects
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 2 }
snmpFrameworkMIBConformance
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 3 }

-- the snmpEngine Group ******************************************

snmpEngine OBJECT IDENTIFIER ::= { snmpFrameworkMIBObjects 1 }




snmpEngineID     OBJECT-TYPE
  SYNTAX       SnmpEngineID
```

```
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION "An SNMP engine's administratively-unique identifier.

                 This information SHOULD be stored in non-volatile
                 storage so that it remains constant across
                 re-initializations of the SNMP engine.
                "
    ::= { snmpEngine 1 }

snmpEngineBoots  OBJECT-TYPE
    SYNTAX       INTEGER (1..2147483647)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION "The number of times that the SNMP engine has
                 (re-)initialized itself since snmpEngineID
                 was last configured.
                "
    ::= { snmpEngine 2 }

snmpEngineTime   OBJECT-TYPE
    SYNTAX       INTEGER (0..2147483647)
    UNITS        "seconds"
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION "The number of seconds since the value of
                 the snmpEngineBoots object last changed.
                 When incrementing this object's value would
                  cause it to exceed its maximum,
                 snmpEngineBoots is incremented as if a
                 re-initialization had occurred, and this
                 object's value consequently reverts to zero.
                "
    ::= { snmpEngine 3 }

snmpEngineMaxMessageSize OBJECT-TYPE
    SYNTAX       INTEGER (484..2147483647)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION "The maximum length in octets of an SNMP message
                 which this SNMP engine can send or receive and
                 process, determined as the minimum of the maximum
                 message size values supported among all of the
                 transports available to and supported by the engine.
                "
    ::= { snmpEngine 4 }
```

```
-- Registration Points for Authentication and Privacy Protocols **

snmpAuthProtocols OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION  "Registration point for standards-track
               authentication protocols
 used in SNMP Management
               Frameworks.
              "
  ::= { snmpFrameworkAdmin 1 }

snmpPrivProtocols OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION  "Registration point for standards-track privacy
               protocols used in SNMP Management Frameworks.
              "
  ::= { snmpFrameworkAdmin 2 }

-- Conformance information ****************************************

snmpFrameworkMIBCompliances
           OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 1}
snmpFrameworkMIBGroups
           OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 2}

-- compliance statements

snmpFrameworkMIBCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION "The compliance statement for SNMP engines which
               implement the SNMP Management Framework MIB.
              "
  MODULE    -- this module
     MANDATORY-GROUPS { snmpEngineGroup }

  ::= { snmpFrameworkMIBCompliances 1 }

-- units of conformance

snmpEngineGroup
 OBJECT-GROUP
  OBJECTS {
           snmpEngineID,
           snmpEngineBoots,
           snmpEngineTime,
           snmpEngineMaxMessageSize
          }
```

```
  STATUS       current
  DESCRIPTION "A collection of objects for identifying and
               determining the configuration and current timeliness




               values of an SNMP engine.
              "
  ::= { snmpFrameworkMIBGroups 1 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-FRAMEWORK-MIB
No license file was found, but licenses were detected in source scan.

```
IPSEC-SPD-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, Integer32,
  Unsigned32, mib-2           FROM SNMPv2-SMI
                              -- [RFC2578]

  TEXTUAL-CONVENTION, RowStatus, TruthValue,
  TimeStamp, StorageType, VariablePointer
                              FROM SNMPv2-TC
                              -- [RFC2579]




  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
                              FROM SNMPv2-CONF
                              -- [RFC2580]

  InterfaceIndex
                              FROM IF-MIB
                              -- [RFC2863]

  diffServMIBMultiFieldClfrGroup, IfDirection,
  diffServMultiFieldClfrNextFree
                              FROM DIFFSERV-MIB
                              -- [RFC3289]

  InetAddressType, InetAddress
                               FROM INET-ADDRESS-MIB
                              -- [RFC4001]
```

```
  SnmpAdminString                 FROM SNMP-FRAMEWORK-MIB
                          -- [RFC3411]

  ;

--
-- module identity
--

spdMIB MODULE-IDENTITY
  LAST-UPDATED "200702070000Z"    -- 7 February 2007
  ORGANIZATION "IETF IP Security Policy Working Group"
  CONTACT-INFO "Michael Baer
               P.O. Box 72682
               Davis, CA 95617
               Phone: +1 530 902 3131
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               Robert Story
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             Tucker, GA 30085
               Phone: +1 770 617 3722
               Email: rstory@ipsp.revelstone.com

               Cliff Wang
               ARO
               4300 S. Miami Blvd.
               Durham, NC 27703
               E-Mail: cliffwangmail@yahoo.com"
  DESCRIPTION
   "This MIB module defines configuration objects for managing
    IPsec Security Policies.  In general, this MIB can be
    implemented anywhere IPsec security services exist (e.g.,
```

```
    bump-in-the-wire, host, gateway, firewall, router, etc.).

    Copyright (C) The IETF Trust (2007).  This version of
    this MIB module is part of RFC 4807; see the RFC itself for
    full legal notices."

-- Revision History

  REVISION     "200702070000Z"    -- 7 February 2007
  DESCRIPTION  "Initial version, published as RFC 4807."

  ::= { mib-2 153 }

--
-- groups of related objects
--

spdConfigObjects        OBJECT IDENTIFIER
   ::= { spdMIB 1 }
spdNotificationObjects
  OBJECT IDENTIFIER
   ::= { spdMIB 2 }
spdConformanceObjects    OBJECT IDENTIFIER
   ::= { spdMIB 3 }
spdActions              OBJECT IDENTIFIER
   ::= { spdMIB 4 }

--
-- Textual Conventions
--

SpdBooleanOperator ::= TEXTUAL-CONVENTION
  STATUS   current
  DESCRIPTION
      "The SpdBooleanOperator operator is used to specify
       whether sub-components in a decision-making process are




       ANDed or ORed together to decide if the resulting
       expression is true or false."
  SYNTAX      INTEGER { or(1), and(2) }

SpdAdminStatus ::= TEXTUAL-CONVENTION
  STATUS   current
  DESCRIPTION
      "The SpdAdminStatus is used to specify the administrative
       status of an object.  Objects that are disabled MUST NOT
```

```
      be used by the packet processing engine."
  SYNTAX      INTEGER { enabled(1), disabled(2) }

SpdIPPacketLogging ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "d"
  STATUS   current
  DESCRIPTION
     "SpdIPPacketLogging specifies
 whether an audit message
      SHOULD be logged if a packet is passed through a Security
      Association (SA) and if some of that packet is included in
      the log event.  A value of '-1' indicates no logging.  A
      value of '0' or greater indicates that logging SHOULD be
      done and indicates the number of bytes starting at the
      beginning of the packet to place in the log.  Values greater
      than the size of the packet being processed indicate that
      the entire packet SHOULD be sent.

      Examples:
      '-1' no logging
      '0'  log but do not include any of the packet in the log
      '20' log and include the first 20 bytes of the packet
          in the log."

  SYNTAX      Integer32 (-1..65535)


SpdTimePeriod ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "31t"
  STATUS      current
  DESCRIPTION
     "This property identifies an overall range of calendar dates
      and time.  In a boolean context, a value
 within this time
      range, inclusive, is considered true.

      This information is encoded as an octet string using
      the UTF-8 transformation format described in STD 63,
      RFC 3629.

      It uses the format suggested in RFC 3060.  An octet string




      represents a start date and time and an end date and time.
      For example:

      yyyymmddThhmmss/yyyymmddThhmmss
```

```
        Where: yyyy = year     mm = month     dd = day
               hh = hour     mm = minute    ss = second

        The first 'yyyymmddThhmmss' sub-string indicates the start
        date and time.  The second 'yyyymmddThhmmss' sub-string
        indicates the end date and time.  The character 'T' within
        these sub-strings indicates the beginning of the time
        portion of each sub-string.  The solidus character '/'
        separates the start from the end date and time.  The end
        date and time MUST be subsequent to the start date and

 time.

        There are also two allowed substitutes for a
        'yyyymmddThhmmss' sub-string: one for the start date and
        time, and one for the end date and time.

        If the start date and time are replaced with the string
        'THISANDPRIOR', this sub-string would indicate the current
        date and time and the previous dates and time.

        If the end date and time are replaced with the string
        'THISANDFUTURE', this sub-string would indicate the current
        date and time and the subsequent dates and time.

        Any of the following SHOULD be considered a
        'wrongValue' error:
        - Setting a value with the end date and time earlier than
          or equal to the start date and time.
        - Setting the start date and time to 'THISANDFUTURE'.
        - Setting the end date and time to 'THISANDPRIOR'."
    REFERENCE "RFC 3060, 3269"
    SYNTAX      OCTET STRING (SIZE (0..31))
--
-- Policy group definitions
--

spdLocalConfigObjects
 OBJECT IDENTIFIER
    ::= { spdConfigObjects 1 }

spdIngressPolicyGroupName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(0..32))
    MAX-ACCESS  read-write
    STATUS      current
```

```
  DESCRIPTION
      "This object indicates the global system policy group that
      is to be applied on ingress packets (i.e., arriving at an
      interface from a network) when a given endpoint does not
      contain a policy definition in the spdEndpointToGroupTable.
      Its value can be used as an index into the
      spdGroupContentsTable to retrieve a list of policies.  A
      zero length string indicates that no system-wide policy exists
      and the default policy of 'drop' SHOULD be executed for
      ingress packets until one is imposed by either this object
      or by the endpoint processing a given packet.

      This object MUST be persistent"
  DEFVAL { "" }
  ::= { spdLocalConfigObjects 1 }

spdEgressPolicyGroupName OBJECT-TYPE
  SYNTAX
    SnmpAdminString (SIZE(0..32))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "This object indicates the policy group containing the
       global system policy that is to be applied on egress
       packets (i.e., packets leaving an interface and entering a
       network) when a given endpoint does not contain a policy
       definition in the spdEndpointToGroupTable.  Its value can
       be used as an index into the spdGroupContentsTable to
       retrieve a list of policies.  A zero length string
       indicates that no system-wide policy exists and the default
       policy of 'drop' SHOULD be executed for egress packets
       until one is imposed by either this object or by the
       endpoint processing a given packet.

       This object MUST be persistent"
  DEFVAL { "" }
  ::= { spdLocalConfigObjects 2 }


spdEndpointToGroupTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdEndpointToGroupEntry
  MAX-ACCESS  not-accessible
   STATUS      current
  DESCRIPTION
      "This table maps policies (groupings) onto an endpoint
       (interface).  A policy group assigned to an endpoint is then
       used to control access to the network traffic passing
```

through that endpoint.

If an endpoint has been configured with a policy group and
no rule within that policy group matches that packet, the
default action in this case SHALL be to drop the packet.

If no policy group has been assigned to an endpoint, then
the policy group specified by spdIngressPolicyGroupName MUST
be used on traffic inbound from the network through that
endpoint, and the policy group specified by
spdEgressPolicyGroupName MUST be used for traffic outbound
to the network through that endpoint."
::= { spdConfigObjects 2 }

spdEndpointToGroupEntry OBJECT-TYPE
SYNTAX SpdEndpointToGroupEntry
MAX-ACCESS not-accessible
STATUS
current
DESCRIPTION
"A mapping assigning a policy group to an endpoint."

INDEX { spdEndGroupDirection, spdEndGroupInterface }
::= { spdEndpointToGroupTable 1 }

SpdEndpointToGroupEntry ::= SEQUENCE {
spdEndGroupDirection IfDirection,
spdEndGroupInterface InterfaceIndex,
spdEndGroupName SnmpAdminString,
spdEndGroupLastChanged TimeStamp,
spdEndGroupStorageType StorageType,
spdEndGroupRowStatus RowStatus
}

spdEndGroupDirection OBJECT-TYPE
SYNTAX IfDirection
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This object indicates which direction of packets crossing
the interface are associated with which spdEndGroupName
object. Ingress packets, or packets into the device match
when this value is inbound(1). Egress packets or packets
out

```
 of the device match when this value is outbound(2)."
  ::= { spdEndpointToGroupEntry 1 }

spdEndGroupInterface OBJECT-TYPE
  SYNTAX      InterfaceIndex
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION


      "This value matches the IF-MIB's ifTable's ifIndex column
       and indicates the interface associated with a given
       endpoint.  This object can be used to uniquely identify an
       endpoint that a set of policy groups are applied to."
  ::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The policy group name to apply at this endpoint.  The
       value of the spdEndGroupName object is then used as an
       index into the spdGroupContentsTable to come up with a list
       of rules that MUST be applied at this endpoint."
  ::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

 SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of sysUpTime when this row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem, this
       object SHOULD have a zero value."
  ::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

```
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a storage
        type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create



     STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.

        The value of this object has no effect on whether other
        objects in this conceptual row can be modified.

        This object is considered 'notReady' and MUST NOT be set to
        active until one or more active rows exist within the
        spdGroupContentsTable for the group referenced by the
        spdEndGroupName object."
    ::= { spdEndpointToGroupEntry 6 }

--
-- policy group definition table
--

spdGroupContentsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdGroupContentsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains a list of rules and/or subgroups
        contained within a given policy group.  For a given value
        of spdGroupContName, the set of rows sharing that value
        forms a 'group'.  The rows in a group MUST be processed
        according to the value of the spdGroupContPriority
 object
        in each row.  The processing MUST be executed starting with
        the lowest value of spdGroupContPriority and in ascending
        order thereafter.

        If an action is executed as the result of the processing of
```

```
        a row in a group, the processing of further rows in that
        group MUST stop.  Iterating to the next policy group row by
        finding the next largest spdGroupContPriority object SHALL
        only be done if no actions were run while processing the
        current row for a given packet."
    ::= { spdConfigObjects 3 }

spdGroupContentsEntry OBJECT-TYPE
    SYNTAX      SpdGroupContentsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Defines a given sub-component within a policy group.  A
        sub-component is either a rule or another group as
        indicated by spdGroupContComponentType and referenced by
        spdGroupContComponentName."



    INDEX   { spdGroupContName,
  spdGroupContPriority }
    ::= { spdGroupContentsTable 1 }

SpdGroupContentsEntry ::= SEQUENCE {
    spdGroupContName                SnmpAdminString,
    spdGroupContPriority            Integer32,
    spdGroupContFilter              VariablePointer,
    spdGroupContComponentType           INTEGER,
    spdGroupContComponentName           SnmpAdminString,
    spdGroupContLastChanged             TimeStamp,
    spdGroupContStorageType             StorageType,
    spdGroupContRowStatus               RowStatus
}

spdGroupContName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The administrative name of the group associated with this
        row.  A 'group' is formed by all the rows in this table that
        have the same value of this object."
    ::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "The priority (sequence number) of the sub-component in
       a group that this row represents.  This value indicates
       the order that each row of this table MUST be processed
       from low to high.  For example, a row with a priority of 0
       is processed before a row with a priority of 1, a 1 before
       a 2, etc."
  ::= { spdGroupContentsEntry 2 }

spdGroupContFilter OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "spdGroupContFilter points to a filter that is evaluated
       to determine whether the spdGroupContComponentName within
       this row is exercised.  Managers can use this object to
       classify groups of rules, or subgroups, together in order to
       achieve a greater degree of control and optimization over
       the execution order of the items within the group.  If the

  filter evaluates to false, the rule or subgroup will be
       skipped and the next rule or subgroup will be evaluated
       instead.  This value can be used to indicate a scalar or
       row in a table.  When indicating a row in a table, this
       value MUST point to the first column instance in that row.

       An example usage of this object would be to limit a
       group of rules to executing only when the IP packet
       being processed is designated to be processed by IKE.
       This effectively creates a group of IKE-specific rules.

       The following tables and scalars can be pointed to by this
       column.  All but diffServMultiFieldClfrTable are defined in
       this MIB:

            diffServMultiFieldClfrTable
            spdIpOffsetFilterTable
            spdTimeFilterTable
            spdCompoundFilterTable
            spdTrueFilter
            spdIpsoHeaderFilterTable
```

```
        Implementations MAY choose to provide
 support for other
        filter tables or scalars.

        If this column is set to a VariablePointer value, which
        references a non-existent row in an otherwise supported
        table, the inconsistentName exception MUST be returned.  If
        the table or scalar pointed to by the VariablePointer is
        not supported at all, then an inconsistentValue exception
        MUST be returned.

        If, during packet processing, a row in this table is applied
        to a packet and the value of this column in that row
        references a non-existent or non-supported object, the
        packet MUST be dropped."
    REFERENCE "RFC 3289"
    DEFVAL { spdTrueFilterInstance }
    ::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE
    SYNTAX      INTEGER { group(1), rule(2) }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the spdGroupContComponentName object
        is the name of another group
 defined within the
        spdGroupContentsTable or is the name of a rule defined




        within the spdRuleDefinitionTable."
    DEFVAL { rule }
    ::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The name of the policy rule or subgroup contained within
        this row, as indicated by the spdGroupContComponentType
        object."
    ::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
      "The value of sysUpTime when this row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem,
       this object SHOULD have a zero value."
  ::= { spdGroupContentsEntry
 6 }

spdGroupContStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The storage type for this row.  Rows in this table that
       were created through an external process MAY have a storage
       type of readOnly or permanent.

       For a storage type of permanent, none of the columns have
       to be writable."
  DEFVAL { nonVolatile }
  ::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This object indicates the conceptual status of this row.



       The value of this object has no effect on whether other
       objects in this conceptual row can be modified.

       This object MUST NOT be set to active until the row to
       which the spdGroupContComponentName points to exists and is
       active.

       If active, this object MUST remain active
 unless one of the
       following two conditions are met:

       I.  No active row in spdEndpointToGroupTable exists that
           references this row's group (i.e., indicate this row's
```

```
            spdGroupContName).

          II. Or at least one other active row in this table has a
            matching spdGroupContName.

          If neither condition is met, an attempt to set this row to
          something other than active MUST result in an
          inconsistentValue error."
    ::= { spdGroupContentsEntry 8 }


--
-- policy definition table
--

spdRuleDefinitionTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdRuleDefinitionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table defines a rule by associating a filter
        or a set of filters to an action to be executed."
    ::= { spdConfigObjects 4 }

spdRuleDefinitionEntry OBJECT-TYPE
    SYNTAX      SpdRuleDefinitionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
     DESCRIPTION
        "A row defining a particular rule definition.  A rule
        definition binds a filter pointer to an action pointer."
    INDEX   { spdRuleDefName }
    ::= { spdRuleDefinitionTable 1 }

SpdRuleDefinitionEntry ::= SEQUENCE {
    spdRuleDefName                  SnmpAdminString,



    spdRuleDefDescription           SnmpAdminString,
    spdRuleDefFilter                VariablePointer,
    spdRuleDefFilterNegated         TruthValue,
    spdRuleDefAction                VariablePointer,
    spdRuleDefAdminStatus           SpdAdminStatus,
    spdRuleDefLastChanged           TimeStamp,
    spdRuleDefStorageType           StorageType,
    spdRuleDefRowStatus             RowStatus
}
```

```
spdRuleDefName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "spdRuleDefName is the administratively assigned name of

    the rule referred to by the spdGroupContComponentName
      object."
  ::= { spdRuleDefinitionEntry 1 }

spdRuleDefDescription OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "A user defined string.  This field MAY be used for
      administrative tracking purposes."
  DEFVAL { "" }
  ::= { spdRuleDefinitionEntry 2 }

spdRuleDefFilter OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "spdRuleDefFilter points to a filter that is used to
      evaluate whether the action associated with this row is
      executed or not.  The action will only execute if the
      filter referenced by this object evaluates to TRUE after
      first applying any negation required by the
      spdRuleDefFilterNegated object.

      The following tables and scalars can be pointed to by this
      column.  All but diffServMultiFieldClfrTable
 are defined in
      this MIB.  Implementations MAY choose to provide support
      for other filter tables or scalars as well:

           diffServMultiFieldClfrTable



           spdIpOffsetFilterTable
           spdTimeFilterTable
           spdCompoundFilterTable
           spdTrueFilter
```

```
        If this column is set to a VariablePointer value, which
        references a non-existent row in an otherwise supported
        table, the inconsistentName exception MUST be returned.  If
        the table or scalar pointed to by the VariablePointer is
        not supported at all, then an inconsistentValue exception
        MUST be returned.

        If, during packet processing, this column has a value that
        references a non-existent or non-supported object, the
        packet MUST be dropped."
    REFERENCE "RFC 3289"
    ::= { spdRuleDefinitionEntry 3 }

spdRuleDefFilterNegated OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS
   read-create
    STATUS      current
    DESCRIPTION
       "spdRuleDefFilterNegated specifies whether or not the results of
        the filter referenced by the spdRuleDefFilter object is
        negated."
    DEFVAL { false }
    ::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE
    SYNTAX      VariablePointer
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       "This column points to the action to be taken.  It MAY,
        but is not limited to, point to a row in one of the
        following tables:

          spdCompoundActionTable
          ipsaSaPreconfiguredActionTable
          ipiaIkeActionTable
          ipiaIpsecActionTable

        It MAY also point to one of the scalar objects beneath
        spdStaticActions.

        If this object is set to a pointer to a row in an
        unsupported (or unknown) table, an inconsistentValue
```

error MUST be returned.

If this object is set to point to a non-existent
row in an
otherwise supported table, an inconsistentName error MUST
be returned.

If, during packet processing, this column has a value that
references a non-existent or non-supported object, the
packet MUST be dropped."
::= { spdRuleDefinitionEntry 5 }

spdRuleDefAdminStatus OBJECT-TYPE
SYNTAX SpdAdminStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Indicates whether the current rule definition is considered
active. If the value is enabled, the rule MUST be evaluated
when processing packets. If the value is disabled, the
packet processing MUST continue as if this rule's filter
had effectively failed."
DEFVAL { enabled }
::= { spdRuleDefinitionEntry 6 }

spdRuleDefLastChanged OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this row was last modified

or created either through SNMP SETs or by some other
external means.

If this row has not been modified since the last
re-initialization of the network management subsystem, this
object SHOULD have a zero value."
::= { spdRuleDefinitionEntry 7 }

spdRuleDefStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type for this row. Rows in this table that
were created through an external process MAY have a
storage type of readOnly or permanent.

```
        For a storage type of permanent, none of the columns have




        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdRuleDefinitionEntry 8 }

spdRuleDefRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.

        The value of this object has no effect on
 whether other
        objects in this conceptual row can be modified.

        This object MUST NOT be set to active until the containing
        conditions, filters, and actions have been defined.  Once
        active, it MUST remain active until no active
        policyGroupContents entries are referencing it.  A failed
        attempt to do so MUST return an inconsistentValue error."
    ::= { spdRuleDefinitionEntry 9 }

--
-- Policy compound filter definition table
--

spdCompoundFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdCompoundFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table defining compound filters and their associated
        parameters.  A row in this table can be pointed to by a
        spdRuleDefFilter object."
    ::= { spdConfigObjects 5 }

spdCompoundFilterEntry OBJECT-TYPE
    SYNTAX      SpdCompoundFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry
```

```
 in the spdCompoundFilterTable.  Each entry in this
       table represents a compound filter.  A filter defined by
       this table is considered to have a TRUE return value if and
       only if:

       spdCompFiltLogicType is AND and all of the sub-filters
       associated with it, as defined in the spdSubfiltersTable,
       are all true themselves (after applying any required




       negation, as defined by the ficFilterIsNegated object).

       spdCompFiltLogicType is OR and at least one of the
       sub-filters associated with it, as defined in the
       spdSubfiltersTable, is true itself (after applying any
       required negation, as defined by the ficFilterIsNegated
       object."
  INDEX       { spdCompFiltName }
  ::= { spdCompoundFilterTable 1 }

SpdCompoundFilterEntry ::= SEQUENCE {
  spdCompFiltName                  SnmpAdminString,
  spdCompFiltDescription             SnmpAdminString,
  spdCompFiltLogicType
            SpdBooleanOperator,
  spdCompFiltLastChanged             TimeStamp,
  spdCompFiltStorageType             StorageType,
  spdCompFiltRowStatus               RowStatus
}

spdCompFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A user definable string.  This value is used as an index
      into this table."
  ::= { spdCompoundFilterEntry 1 }

spdCompFiltDescription OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "A user definable string.  This field MAY be used for
      your administrative tracking purposes."
  DEFVAL { "" }
```

```
  ::= { spdCompoundFilterEntry 2 }

spdCompFiltLogicType OBJECT-TYPE
  SYNTAX      SpdBooleanOperator
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "Indicates whether the sub-component filters of this
       compound
 filter are functionally ANDed or ORed together."
  DEFVAL { and }
  ::= { spdCompoundFilterEntry 3 }




spdCompFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The value of sysUpTime when this row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem, this
       object SHOULD have a zero value."
  ::= { spdCompoundFilterEntry 4 }

spdCompFiltStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The storage type for this row.  Rows in this table that
       were created through an external process MAY have a
       storage type of readOnly or permanent.

       For a storage type of permanent, none of the columns have
       to be writable."

 DEFVAL { nonVolatile }
  ::= { spdCompoundFilterEntry 5 }

spdCompFiltRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
```

```
  STATUS      current
  DESCRIPTION
      "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      Once active, it MUST NOT have its value changed if any
      active rows in the spdRuleDefinitionTable are currently
      pointing at this row."
  ::= { spdCompoundFilterEntry 6 }

--
-- Policy filters in a cf table
--

spdSubfiltersTable OBJECT-TYPE



  SYNTAX      SEQUENCE OF SpdSubfiltersEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "This table defines a list of filters contained within a
      given compound filter defined in the
      spdCompoundFilterTable."
  ::= { spdConfigObjects 6 }

spdSubfiltersEntry OBJECT-TYPE
  SYNTAX      SpdSubfiltersEntry
   MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "An entry in the spdSubfiltersTable.  There is an entry in
      this table for each sub-filter of all compound filters
      present in the spdCompoundFilterTable."
  INDEX       {  spdCompFiltName, spdSubFiltPriority }
  ::= { spdSubfiltersTable 1 }

SpdSubfiltersEntry ::= SEQUENCE {
  spdSubFiltPriority                Integer32,
  spdSubFiltSubfilter               VariablePointer,
  spdSubFiltSubfilterIsNegated          TruthValue,
  spdSubFiltLastChanged             TimeStamp,
  spdSubFiltStorageType             StorageType,
  spdSubFiltRowStatus               RowStatus
}
```

```
spdSubFiltPriority OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The priority of a given filter within a compound filter.
      The order of execution is from lowest to highest priority
       value (i.e., priority 0 before priority 1, 1 before 2,
      etc.).  Implementations MAY choose to follow this ordering,
      as set by the manager that created the rows.  This can allow
      a manager to intelligently construct filter lists such that
      faster filters are evaluated first."
  ::= { spdSubfiltersEntry 1 }

spdSubFiltSubfilter OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION



     "The OID of the contained filter.  The value of this
      object is a VariablePointer that references the filter to
      be included in this compound filter.

      The following tables and scalars can be pointed to by this
      column.  All but diffServMultiFieldClfrTable are defined in
      this MIB.  Implementations MAY choose to provide support
      for other filter tables or scalars as well:

           diffServMultiFieldClfrTable
           spdIpsoHeaderFilterTable
            spdIpOffsetFilterTable
           spdTimeFilterTable
           spdCompoundFilterTable
           spdTrueFilter

      If this column is set to a VariablePointer value that
      references a non-existent row in an otherwise supported
      table, the inconsistentName exception MUST be returned.  If
      the table or scalar pointed to by the VariablePointer is
      not supported at all, then an inconsistentValue exception
      MUST be returned.

      If, during packet processing, this column has a value that
      references a non-existent or non-supported object, the
```

```
        packet MUST be dropped."
    REFERENCE "RFC 3289"
    ::= { spdSubfiltersEntry 2 }

spdSubFiltSubfilterIsNegated OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether or not the result of applying this sub-filter
        is negated."
    DEFVAL { false }
    ::= { spdSubfiltersEntry
 3 }

spdSubFiltLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.




        If this row has not been modified since the last
        re-initialization of the network management subsystem, this
        object SHOULD have a zero value."
    ::= { spdSubfiltersEntry 4 }

spdSubFiltStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a
        storage type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdSubfiltersEntry 5 }

spdSubFiltRowStatus OBJECT-TYPE
    SYNTAX
```

```
    RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      This object cannot be made active until a filter
      referenced by the spdSubFiltSubfilter object is both
      defined and active.  An attempt to do so MUST result in
      an inconsistentValue error.

      If active, this object MUST remain active unless one of the
      following two conditions are met:

      I.  No active row in the SpdCompoundFilterTable exists
          that has a matching spdCompFiltName.

      II. Or, at least one other active row in this table has a
          matching spdCompFiltName.

      If neither condition is met, an attempt to set this row to
      something other than active MUST result in an
      inconsistentValue error."
  ::=
 { spdSubfiltersEntry 6 }




--
-- Static Filters
--

spdStaticFilters OBJECT IDENTIFIER ::= { spdConfigObjects 7 }

spdTrueFilter OBJECT-TYPE
      SYNTAX      Integer32 (1)
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "This scalar indicates a (automatic) true result for
          a filter.  That is, this is a filter that is always
          true; it is useful for adding as a default filter for a
          default action or a set of actions."
      ::= { spdStaticFilters 1 }
```

```
spdTrueFilterInstance OBJECT IDENTIFIER ::= { spdTrueFilter 0 }


--
-- Policy IP Offset filter definition table
--

spdIpOffsetFilterTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdIpOffsetFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains a list of filter definitions to be
      used within the spdRuleDefinitionTable or the
      spdSubfiltersTable.

      This type of filter is used
 to compare an administrator
      specified octet string to the octets at a particular
      location in a packet."
  ::= { spdConfigObjects 8 }

spdIpOffsetFilterEntry OBJECT-TYPE
  SYNTAX      SpdIpOffsetFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A definition of a particular filter."
  INDEX       {  spdIpOffFiltName }
  ::= { spdIpOffsetFilterTable 1 }




SpdIpOffsetFilterEntry ::= SEQUENCE {
  spdIpOffFiltName                 SnmpAdminString,
  spdIpOffFiltOffset               Unsigned32,
  spdIpOffFiltType                 INTEGER,
  spdIpOffFiltValue                OCTET STRING,
  spdIpOffFiltLastChanged          TimeStamp,
  spdIpOffFiltStorageType          StorageType,
  spdIpOffFiltRowStatus            RowStatus
}

spdIpOffFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
      "The administrative name for this filter."
  ::= { spdIpOffsetFilterEntry 1 }

spdIpOffFiltOffset OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This is the byte offset from the front of the entire IP
       packet where the value or arithmetic comparison is done.  A
       value of '0' indicates the first byte of the packet header.
       If this value is greater than the length of the packet, the
       filter represented by this row should be considered to
       fail."
  ::= { spdIpOffsetFilterEntry 2 }

spdIpOffFiltType OBJECT-TYPE
  SYNTAX INTEGER { equal(1),
                   notEqual(2),
                   arithmeticLess(3),
                   arithmeticGreaterOrEqual(4),
                   arithmeticGreater(5),
                   arithmeticLessOrEqual(6) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This defines the
 various tests that are used when
       evaluating a given filter.

       The various tests definable in this table are as follows:

       equal:
         - Tests if the OCTET STRING, 'spdIpOffFiltValue', matches



           a value in the packet starting at the given offset in
           the packet and comparing the entire OCTET STRING of
           'spdIpOffFiltValue'.  Any values compared this way are
           assumed to be unsigned integer values in network byte
           order of the same length as 'spdIpOffFiltValue'.

       notEqual:
         - Tests if the OCTET STRING, 'spdIpOffFiltValue', does
```

not match a value in the packet starting at the given offset in the packet and comparing to the entire OCTET STRING of 'spdIpOffFiltValue'. Any values compared this way are assumed to be unsigned integer values in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLess:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than ('<') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreaterOrEqual:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than or equal to ('>=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreater:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than ('>') the value starting at the given offset within the packet. The value in the packet is
assumed to be an unsigned integer in network
byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLessOrEqual:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than or equal to ('<=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'."

::= { spdIpOffsetFilterEntry 3 }

spdIpOffFiltValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1..1024))
MAX-ACCESS read-create
STATUS current

```
  DESCRIPTION
      "spdIpOffFiltValue is used for match comparisons of a
       packet at spdIpOffFiltOffset."
  ::= { spdIpOffsetFilterEntry 4 }

spdIpOffFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The value of sysUpTime when this
 row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem, this
       object SHOULD have a zero value."
  ::= { spdIpOffsetFilterEntry 5 }


spdIpOffFiltStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The storage type for this row.  Rows in this table that
       were created through an external process MAY have a
       storage type of readOnly or permanent.

       For a storage type of permanent, none of the columns have
       to be writable."
  DEFVAL { nonVolatile }
  ::= { spdIpOffsetFilterEntry 6 }

spdIpOffFiltRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This object indicates the conceptual status of this row.

       The value of
 this object has no effect on whether other
       objects in this conceptual row can be modified.

       If active, this object MUST remain active if it is
```

```
        referenced by an active row in another table.  An attempt
        to set it to anything other than active while it is
        referenced by an active row in another table MUST result in
        an inconsistentValue error."
    ::= { spdIpOffsetFilterEntry 7 }


--
-- Time/scheduling filter table
--

spdTimeFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdTimeFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Defines a table of filters that can be used to
        effectively enable or disable policies based on a valid
        time range."
    ::= { spdConfigObjects 9 }

spdTimeFilterEntry OBJECT-TYPE
    SYNTAX      SpdTimeFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row describing a given time frame for which a policy
         is filtered on to activate or deactivate the rule.

        If all the column objects in a row are true for the current
        time, the row evaluates as 'true'.  More explicitly, the
        time matching column objects in a row MUST be logically
        ANDed together to form the boolean true/false for the row."
    INDEX   { spdTimeFiltName }
    ::= { spdTimeFilterTable 1 }

SpdTimeFilterEntry ::= SEQUENCE {
    spdTimeFiltName                SnmpAdminString,
    spdTimeFiltPeriod              SpdTimePeriod,
    spdTimeFiltMonthOfYearMask     BITS,
    spdTimeFiltDayOfMonthMask      OCTET STRING,
    spdTimeFiltDayOfWeekMask       BITS,
    spdTimeFiltTimeOfDayMask       SpdTimePeriod,
    spdTimeFiltLastChanged         TimeStamp,
    spdTimeFiltStorageType         StorageType,
    spdTimeFiltRowStatus           RowStatus
```

```
}



spdTimeFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
      "An administratively assigned name for this filter."
  ::= { spdTimeFilterEntry 1 }


spdTimeFiltPeriod OBJECT-TYPE
  SYNTAX      SpdTimePeriod
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The valid time period for this filter.  This column is
       considered 'true' if the current time is within the range of
       this object."
  DEFVAL { "THISANDPRIOR/THISANDFUTURE" }
  ::= { spdTimeFilterEntry 2 }


spdTimeFiltMonthOfYearMask OBJECT-TYPE
  SYNTAX      BITS { january(0), february(1), march(2),
                     april(3), may(4), june(5), july(6),
                     august(7), september(8), october(9),
                     november(10), december(11) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "A bit mask that indicates acceptable months of the year.
       This column evaluates to 'true' if the current month's bit
       is set."
  DEFVAL { { january, february, march,
 april, may, june, july,
            august, september, october, november, december } }
  ::= { spdTimeFilterEntry 3 }

spdTimeFiltDayOfMonthMask OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(8))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "Defines which days of the month the current time is
```

valid for. It is a sequence of 64 BITS, where each BIT represents a corresponding day of the month in forward or reverse order. Starting from the left-most bit, the first 31 bits identify the day of the month, counting from the beginning of the month. The following 31 bits (bits 32-62) indicate the day of the month, counting from the end of the

month. For months with fewer than 31 days, the bits that correspond to the non-existent days of that month are ignored (e.g., for non-leap year Februarys, bits 29-31 and 60-62 are ignored).

This column evaluates to 'true' if the current day of the month's bit is set.

For example, a value of 0X'80 00 00 01 00 00 00 00' indicates that this column evaluates to true on the first and last days of the month.

The last two bits in the string MUST be zero."
::= { spdTimeFilterEntry 4 }

spdTimeFiltDayOfWeekMask OBJECT-TYPE
SYNTAX BITS { sunday(0), monday(1), tuesday(2), wednesday(3), thursday(4), friday(5), saturday(6) }
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"A bit mask that defines which days of the week that the current time is valid for. This column evaluates to 'true' if the current day of the week's bit is set."
DEFVAL { { monday, tuesday, wednesday, thursday, friday, saturday, sunday } }
::= { spdTimeFilterEntry 5 }

spdTimeFiltTimeOfDayMask OBJECT-TYPE
SYNTAX SpdTimePeriod
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Indicates the start and end time of the day for which this filter evaluates to true. The date portions of the spdTimePeriod TC are ignored for purposes of evaluating this

```
        mask, and only the time-specific portions are used.

        This column evaluates to 'true' if the current time of day
        is within the range of the start and end times of the day
        indicated by this object."
    DEFVAL { "00000000T000000/00000000T240000" }
    ::= { spdTimeFilterEntry 6 }

spdTimeFiltLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp



    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.

        If this row has not been modified since the last
        re-initialization of the network management subsystem, this

       object SHOULD have a zero value."
    ::= { spdTimeFilterEntry 7 }

spdTimeFiltStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a storage
        type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdTimeFilterEntry 8 }

spdTimeFiltRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this
        row.
```

```
        The value of this object has no effect on whether other
        objects in this conceptual row can be modified.

        If active, this object MUST remain active if it is
        referenced by an active row in another table.  An attempt
        to set
 it to anything other than active while it is
        referenced by an active row in another table MUST result in
        an inconsistentValue error."
   ::= { spdTimeFilterEntry 9 }

--
-- IPSO protection authority filtering
--




spdIpsoHeaderFilterTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SpdIpsoHeaderFilterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table contains a list of IPSO header filter
       definitions to be used within the spdRuleDefinitionTable or
       the spdSubfiltersTable.  IPSO headers and their values are
       described in RFC 1108."
   REFERENCE "RFC 1108"
   ::= { spdConfigObjects 10 }

spdIpsoHeaderFilterEntry OBJECT-TYPE
   SYNTAX      SpdIpsoHeaderFilterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A definition of a particular filter."
   INDEX       {  spdIpsoHeadFiltName }
   ::= { spdIpsoHeaderFilterTable 1 }

SpdIpsoHeaderFilterEntry ::= SEQUENCE
 {
   spdIpsoHeadFiltName                 SnmpAdminString,
   spdIpsoHeadFiltType                 BITS,
   spdIpsoHeadFiltClassification       INTEGER,
   spdIpsoHeadFiltProtectionAuth       INTEGER,
   spdIpsoHeadFiltLastChanged          TimeStamp,
   spdIpsoHeadFiltStorageType          StorageType,
   spdIpsoHeadFiltRowStatus            RowStatus
```

```
}

spdIpsoHeadFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The administrative name for this filter."
  ::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType OBJECT-TYPE
  SYNTAX      BITS { classificationLevel(0),
                     protectionAuthority(1) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates which of the IPSO header field a
      packet is filtered on for this row.  If this object is set
      to classification(0), the spdIpsoHeadFiltClassification




       object indicates how the packet is filtered.  If this object
      is set to protectionAuthority(1), the
      spdIpsoHeadFiltProtectionAuth object indicates how the
      packet is filtered."
  ::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification OBJECT-TYPE
  SYNTAX      INTEGER { topSecret(61), secret(90),
                        confidential(150), unclassified(171) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the IPSO classification header field
      value that the packet MUST have for this row to evaluate to
      'true'.

      The values of these enumerations are defined by RFC 1108."
  REFERENCE "RFC 1108"
  ::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth OBJECT-TYPE
  SYNTAX      INTEGER { genser(0), siopesi(1), sci(2),
                        nsa(3), doe(4) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

```
        "This object indicates the IPSO protection authority header
        field value that the packet MUST have for this row to
        evaluate to 'true'.

        The values of these enumerations are defined by RFC 1108.
        Hence the reason the SMIv2 convention of not using 0 in
        enumerated lists is violated here."
    REFERENCE "RFC 1108"
    ::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.

        If this row has not been modified since the last
        re-initialization of the network management subsystem, this
        object SHOULD have a zero value."



    ::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS
        current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a storage
        type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.
```

```
        The value of this object has no effect on whether other
        objects in this conceptual row can be modified.

        However, this object MUST NOT be set to active if the
        requirements of the spdIpsoHeadFiltType object are not met.
        Specifically, if the spdIpsoHeadFiltType bit for
        classification(0) is set, the spdIpsoHeadFiltClassification
        column MUST have a valid value for the row
 status to be set
        to active.  If the spdIpsoHeadFiltType bit for
        protectionAuthority(1) is set, the
        spdIpsoHeadFiltProtectionAuth column MUST have a valid
        value for the row status to be set to active.

        If active, this object MUST remain active if it is
        referenced by an active row in another table.  An attempt
        to set it to anything other than active while it is
        referenced by an active row in another table MUST result in
        an inconsistentValue error."
  ::= { spdIpsoHeaderFilterEntry 7 }

--
-- compound actions table
--

spdCompoundActionTable OBJECT-TYPE



  SYNTAX      SEQUENCE OF SpdCompoundActionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "Table used to allow multiple actions to be associated
       with a rule.  It uses the spdSubactionsTable to do this.
       The rows from spdSubactionsTable that are partially indexed
       by spdCompActName form the
 set of compound actions to be
       performed.  The spdCompActExecutionStrategy column in this
       table indicates how those actions are processed."
  ::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE
  SYNTAX      SpdCompoundActionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

```
      "A row in the spdCompoundActionTable."
  INDEX   { spdCompActName }
  ::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {
  spdCompActName                SnmpAdminString,
  spdCompActExecutionStrategy     INTEGER,
  spdCompActLastChanged           TimeStamp,
  spdCompActStorageType           StorageType,
  spdCompActRowStatus             RowStatus
}

spdCompActName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "This is an administratively assigned name of this
       compound action."
  ::= { spdCompoundActionEntry
 1 }

spdCompActExecutionStrategy OBJECT-TYPE
  SYNTAX      INTEGER { doAll(1),
                        doUntilSuccess(2),
                        doUntilFailure(3) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This object indicates how the sub-actions are executed
       based on the success of the actions as they finish
       executing.



       doAll          - run each sub-action regardless of the
                        exit status of the previous action.
                        This parent action is always
                        considered to have acted successfully.

       doUntilSuccess  - run each sub-action until one succeeds,
                        at which point stop processing the
                        sub-actions within this parent
                        compound action.  If one of the
                        sub-actions did execute successfully,
                        this parent
 action is also considered
                        to have executed successfully.
```

```
        doUntilFailure  - run each sub-action until one fails,
                          at which point stop processing the
                          sub-actions within this compound
                          action.  If any sub-action fails, the
                          result of this parent action is
                          considered to have failed."
    DEFVAL { doUntilSuccess }
    ::= { spdCompoundActionEntry 2 }

spdCompActLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.

        If this row has not been modified since the last
        re-initialization of the network management subsystem, this
        object SHOULD have a zero value."
    ::= { spdCompoundActionEntry
 3 }

spdCompActStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a storage
        type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }



    ::= { spdCompoundActionEntry 4 }

spdCompActRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.
```

```
        The value of this object has no effect on whether other
        objects in this conceptual row can be modified.

        Once a row in the spdCompoundActionTable has been made
        active, this object MUST NOT be set to destroy without
        first destroying all the contained rows listed in the
        spdSubactionsTable."
    ::= { spdCompoundActionEntry 5 }


--
-- actions contained within a compound action
--

spdSubactionsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdSubactionsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "This table contains a list of the sub-actions within a
       given compound action.  Compound actions executing these
       actions MUST execute them in series based on the
       spdSubActPriority value, with the lowest value executing
       first."
  ::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE
  SYNTAX      SpdSubactionsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A row containing a reference to a given compound-action
       sub-action."
  INDEX   { spdCompActName, spdSubActPriority }
  ::= { spdSubactionsTable 1 }

SpdSubactionsEntry ::= SEQUENCE {
  spdSubActPriority                Integer32,
  spdSubActSubActionName
  VariablePointer,



  spdSubActLastChanged              TimeStamp,
  spdSubActStorageType              StorageType,
  spdSubActRowStatus                RowStatus
}
```

```
spdSubActPriority OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The priority of a given sub-action within a compound
      action.  The order in which sub-actions MUST be executed
      are based on the value from this column, with the lowest
      numeric value executing first (i.e., priority 0 before
      priority 1, 1 before 2, etc.)."
  ::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This column points to the action to be taken.  It MAY,
      but is not limited to, point to a row in one of the
      following tables:

        spdCompoundActionTable
  - Allowing recursion
        ipsaSaPreconfiguredActionTable
        ipiaIkeActionTable
        ipiaIpsecActionTable

      It MAY also point to one of the scalar objects beneath
      spdStaticActions.

      If this object is set to a pointer to a row in an
      unsupported (or unknown) table, an inconsistentValue
      error MUST be returned.

      If this object is set to point to a non-existent row in
      an otherwise supported table, an inconsistentName error
      MUST be returned.

      If, during packet processing, this column has a value that
      references a non-existent or non-supported object, the
      packet MUST be dropped."
  ::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE
```

SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this row was last modified
or created either through SNMP SETs or by some other
external
means.

If this row has not been modified since the last
re-initialization of the network management subsystem, this
object SHOULD have a zero value."
::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type for this row. Rows in this table that
were created through an external process MAY have a storage
type of readOnly or permanent.

For a storage type of permanent, none of the columns have
to be writable."
DEFVAL { nonVolatile }
::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other
objects in this conceptual row can be modified.

If active, this object MUST remain active unless one of the
following two conditions are met. An attempt to set it to
anything other than active while the following conditions
are not met MUST result in an inconsistentValue error. The
two conditions are:

I. No active row in the spdCompoundActionTable exists
which has a matching spdCompActName.

```
        II. Or, at least one other active row in this table has a
            matching spdCompActName."



   ::= { spdSubactionsEntry 5 }

--
-- Static Actions
--

-- these are static actions that can be pointed to by the
-- spdRuleDefAction or the spdSubActSubActionName objects to
-- drop, accept, or reject packets.

spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }

spdDropAction    OBJECT-TYPE
   SYNTAX      Integer32 (1)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "This scalar indicates that a packet MUST be dropped
        and SHOULD
 NOT have action/packet logging."
   ::= { spdStaticActions 1 }

spdDropActionLog OBJECT-TYPE
   SYNTAX      Integer32 (1)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "This scalar indicates that a packet MUST be dropped
        and SHOULD have action/packet logging."
   ::= { spdStaticActions 2 }

spdAcceptAction OBJECT-TYPE
   SYNTAX      Integer32 (1)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "This Scalar indicates that a packet MUST be accepted
        (pass-through) and SHOULD NOT have action/packet logging."
   ::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE
   SYNTAX      Integer32 (1)
   MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
      "This scalar indicates that a packet MUST be accepted
       (pass-through) and SHOULD have action/packet logging."
  ::= { spdStaticActions 4 }




--
--
-- Notification objects information
--
--

spdNotificationVariables OBJECT IDENTIFIER
 ::=
  { spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=
  { spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
      "Points to the action instance that was executed that
       resulted in the notification being sent."
  ::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE
  SYNTAX      InetAddressType
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
      "Contains the address type for the interface that the
       notification triggering packet is passing through."
  ::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
      "Contains the interface address for the interface that the
       notification triggering packet is passing through.
```

```
        The format of
 this object is specified by the
        spdIPEndpointAddType object."
   ::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE
   SYNTAX      InetAddressType
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
      "Contains the source address type of the packet that




        triggered the notification."
   ::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE
   SYNTAX      InetAddress
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
      "Contains the source address of the packet that
        triggered the notification.

        The format of this object is specified by the
        spdIPSourceType object."
   ::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE
   SYNTAX      InetAddressType
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
      "Contains the destination address type of the packet
        that triggered the notification."
    ::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE
   SYNTAX      InetAddress
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
      "Contains the destination address of the packet that
        triggered the notification.

        The format of this object is specified by the
        spdIPDestinationType object."
```

```
  ::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE
  SYNTAX      IfDirection
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "Indicates if the packet that triggered the action in
      questions was ingress (inbound) or egress (outbound)."
  ::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE (0..65535))
  MAX-ACCESS  accessible-for-notify




  STATUS      current
  DESCRIPTION
     "spdPacketPart is the front part of the full IP packet that
      triggered this notification.  The initial size limit
is
      determined by the smaller of the size, indicated by:

      I.  The value of the object with the TC syntax
         'SpdIPPacketLogging' that indicated the packet SHOULD be
         logged and

      II. The size of the triggering packet.

      The final limit is determined by the SNMP packet size when
      sending the notification.  The maximum size that can be
      included will be the smaller of the initial size, given the
      above, and the length that will fit in a single SNMP
      notification packet after the rest of the notification's
      objects and any other necessary packet data (headers encoding,
      etc.) have been included in the packet."
  ::= { spdNotificationVariables 9 }

spdActionNotification NOTIFICATION-TYPE
  OBJECTS { spdActionExecuted, spdIPEndpointAddType,
            spdIPEndpointAddress,
            spdIPSourceType, spdIPSourceAddress,
            spdIPDestinationType,
            spdIPDestinationAddress,
             spdPacketDirection }
  STATUS  current
  DESCRIPTION
```

```
      "Notification that an action was executed by a rule.
       Only actions with logging enabled will result in this
       notification getting sent.  The object includes the
       spdActionExecuted object, which will indicate which action
       was executed within the scope of the rule.  Additionally,
       the spdIPSourceType, spdIPSourceAddress,
       spdIPDestinationType, and spdIPDestinationAddress objects
       are included to indicate the packet source and destination
       of the packet that triggered the action.  Finally, the
       spdIPEndpointAddType, spdIPEndpointAddress, and
       spdPacketDirection objects indicate which interface the
       executed action was associated with, and if the packet was
       ingress or egress through the endpoint.

       A spdActionNotification SHOULD be limited to a maximum of
       one notification sent per minute
for any action
       notifications that do not have any other configuration
       controlling their send rate.



       Note that compound actions with multiple executed
       sub-actions may result in multiple notifications being sent
       from a single rule execution."
  ::= { spdNotifications 1 }

spdPacketNotification NOTIFICATION-TYPE
  OBJECTS { spdActionExecuted, spdIPEndpointAddType,
            spdIPEndpointAddress,
            spdIPSourceType, spdIPSourceAddress,
            spdIPDestinationType,
            spdIPDestinationAddress,
            spdPacketDirection,
            spdPacketPart }
  STATUS  current
  DESCRIPTION
      "Notification that a packet passed through a Security
       Association (SA).  Only SAs created by actions with packet
       logging enabled will result in this notification getting
       sent.  The objects sent MUST include the spdActionExecuted,
       which will indicate which action was executed
within the
       scope of the rule.  Additionally, the spdIPSourceType,
       spdIPSourceAddress, spdIPDestinationType, and
       spdIPDestinationAddress objects MUST be included to
       indicate the packet source and destination of the packet
       that triggered the action.  The spdIPEndpointAddType,
```

```
        spdIPEndpointAddress, and spdPacketDirection objects are
        included to indicate which endpoint the packet was
        associated with.  Finally, spdPacketPart is included to
        enable sending a variable sized part of the front of the
        packet with the size dependent on the value of the object of
        TC syntax 'SpdIPPacketLogging', which indicated that logging
        should be done.

        A spdPacketNotification SHOULD be limited to a maximum of
        one notification sent per minute for any action
        notifications that do not have any other configuration
        controlling their send rate.

        An action notification
 SHOULD be limited to a maximum of
        one notification sent per minute for any action
        notifications that do not have any other configuration
        controlling their send rate."
   ::= { spdNotifications 2 }


--
--
-- Conformance information




--
--

spdCompliances OBJECT IDENTIFIER
   ::= { spdConformanceObjects 1 }
spdGroups OBJECT IDENTIFIER
   ::= { spdConformanceObjects 2 }

--
-- Compliance statements
--
--
spdRuleFilterFullCompliance MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
       "The compliance statement for SNMP entities that include
        an IPsec MIB implementation with Endpoint, Rules, and
        filters support.

        When this MIB is implemented with support for read-create,
        then such an implementation can claim full compliance.  Such
```

```
    devices can then be both monitored and configured with this
    MIB."

MODULE -- This Module
  MANDATORY-GROUPS { spdEndpointGroup,

 spdGroupContentsGroup,
                spdRuleDefinitionGroup,
                spdStaticFilterGroup,
                spdStaticActionGroup ,
                diffServMIBMultiFieldClfrGroup }

  GROUP spdIpsecSystemPolicyNameGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
      implementations that support a system policy group
      name."

  GROUP spdCompoundFilterGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
      implementations that support compound filters."

  GROUP spdIPOffsetFilterGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
      implementations that support IP Offset filters.  In
      general, this SHOULD be supported by a compliant IPsec



      Policy implementation."

  GROUP spdTimeFilterGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
       implementations that support time filters."

  GROUP spdIpsoHeaderFilterGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
      implementations that support IPSO Header filters."

  GROUP  spdCompoundActionGroup
  DESCRIPTION
     "This group is mandatory for IPsec Policy
      implementations that support compound actions."
```

```
OBJECT      spdEndGroupLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

OBJECT      spdGroupContComponentType
SYNTAX      INTEGER {
       rule(2)
}
DESCRIPTION
   "Support of the value group(1) is only required for
    implementations that support Policy Groups within
    Policy Groups."

OBJECT      spdGroupContLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

 OBJECT      spdRuleDefLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

OBJECT      spdCompFiltLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

OBJECT      spdSubFiltLastChanged
MIN-ACCESS  not-accessible



DESCRIPTION
    "This object not required for compliance."

OBJECT      spdIpOffFiltLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

OBJECT      spdTimeFiltLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
   "This object not required for compliance."

OBJECT      spdIpsoHeadFiltLastChanged
```

```
      MIN-ACCESS  not-accessible
      DESCRIPTION
         "This object not required for compliance."

      OBJECT      spdCompActLastChanged
      MIN-ACCESS
  not-accessible
      DESCRIPTION
         "This object not required for compliance."

      OBJECT      spdSubActLastChanged
      MIN-ACCESS  not-accessible
      DESCRIPTION
         "This object not required for compliance."

      OBJECT      diffServMultiFieldClfrNextFree
      MIN-ACCESS  not-accessible
      DESCRIPTION
         "This object is not required for compliance."

   ::= { spdCompliances 1 }


spdLoggingCompliance MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
      "The compliance statement for SNMP entities that support
       sending notifications when actions are invoked."
   MODULE -- This Module
      MANDATORY-GROUPS { spdActionLoggingObjectGroup,
                         spdActionNotificationGroup }

   ::= { spdCompliances 2 }

--



-- ReadOnly Compliances
--
spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
      "The compliance statement for SNMP entities that include
       an IPsec MIB implementation with Endpoint, Rules, and
       filters support.

       If this MIB is implemented without support for read-create
```

```
    (i.e., in read-only), it is not in full compliance, but it
    can claim read-only compliance.  Such a device can then be
    monitored, but cannot be configured with this MIB."

  MODULE -- This Module
    MANDATORY-GROUPS { spdEndpointGroup,
                       spdGroupContentsGroup,
                       spdRuleDefinitionGroup,
                       spdStaticFilterGroup,
                       spdStaticActionGroup ,
                       diffServMIBMultiFieldClfrGroup }

    GROUP spdIpsecSystemPolicyNameGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy
        implementations that support a system policy group
        name."

    GROUP spdCompoundFilterGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy
         implementations that support compound filters."

    GROUP spdIPOffsetFilterGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy
        implementations that support IP Offset filters.  In
        general, this SHOULD be supported by a compliant IPsec
        Policy implementation."

    GROUP spdTimeFilterGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy
        implementations that support time filters."

    GROUP spdIpsoHeaderFilterGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy




        implementations that support IPSO Header filters."

    GROUP  spdCompoundActionGroup
    DESCRIPTION
       "This group is mandatory for IPsec Policy
        implementations that support compound actions."
```

OBJECT spdCompActExecutionStrategy
MIN-ACCESS read-only
DESCRIPTION
"Write access is not
required."

OBJECT spdCompActLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdCompActRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompActStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltDescription
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdCompFiltLogicType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltStorageType

MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdEgressPolicyGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdEndGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContComponentName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContComponentType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContFilter
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdGroupContRowStatus
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdGroupContStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIngressPolicyGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdIpOffFiltOffset
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltValue
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltClassification
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltLastChanged

DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpsoHeadFiltProtectionAuth
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefAction
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefAdminStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefDescription
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefFilter
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefFilterNegated
MIN-ACCESS

read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefLastChanged

DESCRIPTION
"This object is not required for compliance."

OBJECT spdRuleDefRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdSubActRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActSubActionName
MIN-ACCESS read-only
DESCRIPTION
"Write access
is not required."

OBJECT spdSubFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdSubFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdSubFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubFiltSubfilter
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT spdSubFiltSubfilterIsNegated
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdTimeFiltDayOfMonthMask
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdTimeFiltDayOfWeekMask
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT
spdTimeFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdTimeFiltMonthOfYearMask
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdTimeFiltPeriod
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdTimeFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION

```
        "Write access is not required."

    OBJECT      spdTimeFiltTimeOfDayMask
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltStorageType
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

  ::= { spdCompliances 3 }



--
--
-- Compliance Groups Definitions
--

--
-- Endpoint, Rule, Filter Compliance Groups
--

spdEndpointGroup OBJECT-GROUP
  OBJECTS {
      spdEndGroupName,
 spdEndGroupLastChanged,
      spdEndGroupStorageType, spdEndGroupRowStatus
  }
  STATUS current
  DESCRIPTION
      "This group is made up of objects from the IPsec Policy
       Endpoint Table."
  ::= { spdGroups 1 }

spdGroupContentsGroup OBJECT-GROUP
  OBJECTS {
      spdGroupContComponentType, spdGroupContFilter,
      spdGroupContComponentName, spdGroupContLastChanged,
      spdGroupContStorageType, spdGroupContRowStatus
  }
  STATUS current
  DESCRIPTION
      "This group is made up of objects from the IPsec Policy
       Group Contents Table."
  ::= { spdGroups 2 }
```

```
spdIpsecSystemPolicyNameGroup OBJECT-GROUP
  OBJECTS {
     spdIngressPolicyGroupName,
     spdEgressPolicyGroupName
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects represent the System
      Policy Group Names."
  ::= { spdGroups 3}

spdRuleDefinitionGroup OBJECT-GROUP
  OBJECTS {
     spdRuleDefDescription, spdRuleDefFilter,
      spdRuleDefFilterNegated, spdRuleDefAction,
     spdRuleDefAdminStatus, spdRuleDefLastChanged,




     spdRuleDefStorageType, spdRuleDefRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy Rule
     Definition Table."
  ::= { spdGroups 4 }

spdCompoundFilterGroup OBJECT-GROUP
  OBJECTS {
     spdCompFiltDescription, spdCompFiltLogicType,
     spdCompFiltLastChanged, spdCompFiltStorageType,
     spdCompFiltRowStatus, spdSubFiltSubfilter,
     spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,
     spdSubFiltStorageType, spdSubFiltRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy
      Compound Filter Table and Sub-Filter Table Group."
  ::= { spdGroups 5 }

spdStaticFilterGroup OBJECT-GROUP
     OBJECTS { spdTrueFilter }
   STATUS current
   DESCRIPTION
      "The static filter group.  Currently this is just
```

```
 a true
        filter."
  ::= { spdGroups 6 }

spdIPOffsetFilterGroup OBJECT-GROUP
  OBJECTS {
     spdIpOffFiltOffset, spdIpOffFiltType,
     spdIpOffFiltValue, spdIpOffFiltLastChanged,
     spdIpOffFiltStorageType, spdIpOffFiltRowStatus
  }

  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy IP
      Offset Filter Table."
  ::= { spdGroups 7 }

spdTimeFilterGroup OBJECT-GROUP
  OBJECTS {
     spdTimeFiltPeriod,
     spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,
     spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,




     spdTimeFiltLastChanged,
     spdTimeFiltStorageType, spdTimeFiltRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy Time
      Filter Table."
  ::= { spdGroups 8 }

spdIpsoHeaderFilterGroup OBJECT-GROUP
  OBJECTS {
     spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
     spdIpsoHeadFiltProtectionAuth,
 spdIpsoHeadFiltLastChanged,
     spdIpsoHeadFiltStorageType, spdIpsoHeadFiltRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy IPSO
      Header Filter Table."
  ::= { spdGroups 9 }

--
```

```
-- action compliance groups
--

spdStaticActionGroup OBJECT-GROUP
  OBJECTS {
     spdDropAction, spdAcceptAction,
     spdDropActionLog, spdAcceptActionLog
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy
      Static Actions."
  ::= { spdGroups 10 }

spdCompoundActionGroup OBJECT-GROUP
  OBJECTS {
     spdCompActExecutionStrategy, spdCompActLastChanged,
     spdCompActStorageType,

     spdCompActRowStatus, spdSubActSubActionName,
     spdSubActLastChanged, spdSubActStorageType,
     spdSubActRowStatus
  }
  STATUS current
  DESCRIPTION
     "The IPsec Policy Compound Action Table and Actions In



      Compound Action Table
 Group."
  ::= { spdGroups 11 }

spdActionLoggingObjectGroup OBJECT-GROUP
  OBJECTS {
     spdActionExecuted,
     spdIPEndpointAddType,   spdIPEndpointAddress,
     spdIPSourceType,        spdIPSourceAddress,
     spdIPDestinationType,   spdIPDestinationAddress,
     spdPacketDirection,     spdPacketPart
  }
  STATUS current
  DESCRIPTION
     "This group is made up of all the Notification objects for
     this MIB."
  ::= { spdGroups 12 }

spdActionNotificationGroup NOTIFICATION-GROUP
```

```
  NOTIFICATIONS {
     spdActionNotification,
     spdPacketNotification
  }
  STATUS current
  DESCRIPTION
     "This group is made up of all the Notifications for this MIB."
  ::= { spdGroups 13 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-MIB
No license file was found, but licenses were detected in source scan.

```
DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS
     MODULE-IDENTITY,
     OBJECT-TYPE,
     IpAddress,
     Unsigned32,
     Counter32,
     Integer32,
     zeroDotZero,
     mib-2
          FROM SNMPv2-SMI          -- RFC 2578
     RowStatus,
     RowPointer,
     DateAndTime,
     TruthValue,
     StorageType
          FROM SNMPv2-TC           -- RFC 2579
     InetAddressType,
     InetAddress
          FROM INET-ADDRESS-MIB    -- RFC 4001
     OBJECT-GROUP,
     MODULE-COMPLIANCE
          FROM SNMPv2-CONF         -- RFC 2580
     SnmpAdminString
          FROM SNMP-FRAMEWORK-MIB  -- RFC 3411
     InterfaceIndexOrZero
          FROM IF-MIB              -- RFC 2863
     ZeroBasedCounter32
          FROM RMON2-MIB           -- RFC 4502
     diffServMIBDataPathGroup,
     diffServMIBClfrGroup,
```

```
    diffServMIBClfrElementGroup,
      diffServMIBMultiFieldClfrGroup,
      diffServMIBActionGroup,
      diffServMIBDscpMarkActGroup,
      diffServMIBCounterGroup,
      diffServMIBAlgDropGroup,



      diffServDataPathStatus,
      diffServClfrStatus,
      diffServClfrElementStatus,
      diffServMultiFieldClfrAddrType,
      diffServMultiFieldClfrSrcAddr,
      diffServMultiFieldClfrDstAddr,
      diffServAlgDropStatus,
      diffServDataPathStorage,
      diffServClfrStorage,
      diffServClfrElementStorage,
      diffServMultiFieldClfrStorage,
      diffServActionStorage,
      diffServCountActStorage,
      diffServAlgDropStorage,
      diffServAlgDropType
            FROM DIFFSERV-MIB;        -- RFC 3289


docsDev MODULE-IDENTITY
      LAST-UPDATED    "200612200000Z" -- December 20, 2006
      ORGANIZATION    "IETF IP over Cable Data Network
                  Working Group"
      CONTACT-INFO
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```

IETF IPCDN Working Group
General Discussion: ipcdn@ietf.org
Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
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Co-chairs: Richard Woundy,
richard_woundy@cable.comcast.com
Jean-Francois Mule,
jf.mule@cablelabs.com"

DESCRIPTION
"This is the MIB Module for DOCSIS-compliant cable modems

and cable-modem
termination systems.

Copyright (C) The IETF Trust (2006). This version
of this MIB module was published in RFC 4639; for full
legal notices see the RFC itself."

REVISION "200612200000Z" -- December 20, 2006
DESCRIPTION
"Second version, published as RFC 4639.

Modifications to this MIB module since RFC 2669 include:
- Deprecation of the docsDevFilter group in favor of the
DiffServ MIB groups, to enable support for IPv6
filtering and DiffServ Code Point (DSCP) marking.
- Deprecation of the docsDevCpeGroup in favor of the
docsDevCpeInetGroup, to enable support of IPv6.
- Addition of various InetAddress objects to enable
support of IPv6.
- Deprecation of docsDevNmAccessTable in favor of SNMP
Coexistence and SNMPv3 -- yet adding
docsDevNmAccessTrapVersion and clarifying
docsDevNmAccessIp for current use of this table,
- Addition of docsDevIgmpModeControl for management and
control of the IGMP mode of operation,
- Addition of docsDevMaxCpe for management of the
maxmium number of CPEs permitted access through a
cable modem,
- Addition of docsDevSwServerTransportProtocol, and
modifications to docsDevSoftware object DESCRIPTIONS,
to enable software downloads via either TFTP or HTTP,
- Replacement of docsDevEvThrottleInhibited with
docsDevEvThrottleThresholdExceeded to simplify
event threshold management,

- Modification of docsDevEvReporting to enable local logging to the internal volatile log, and not to the internal non-volatile log,
- Modification of the compliance statement to make the docsDevCpe objects optional
- Created placeholders for two OIDs in the docsDevFilterPolicyTable that were never used
- Modified the DESCRIPTION of docsDevSwServerTransportProtocol and docsDevSwServerAddressType to address the dependence between each object
- Added a reference to docsDevServerConfigTftpAddress
- Clarified the scope of notifications that are covered by docsDevEvThrottleThreshold
- Clarified an error condition that could occur when doing a SET to docsDevEvReporting
- Defined each of the enumerated types for both docsDevEvLevel and docsDevEvPriority
- Added UNITS clause to docsDevFilterLLCMatches, docsDevFilterIpMatches, docsDevMaxCpe, docsDevEvThrottleThreshold and docsDevEvCounts.
- Added REFERENCE clause to docsDevFilterIpProtocol
- Modified DESCRIPTION of docsDevCpeInetAddr to be more protocol-neutral
- Removed the enumerated value (1) from both docsDevCpeInetSource and docsDevCpeSource
- Covered additional read-write and read-create objects in the Security Considerations section
- Modified the default value of docsDevNmAccessIpMask to be consistent with OSSI specification
- Modified the SYNTAX of docsDevNmAccessCommunity and docsDevNmAccessInterfaces in the Conformance Statement section
- Added SYNTAX clause to docsDevEvReporting in the Conformance Statement section
- Modified SYNTAX clause of docsDevEvReporting to move new enumerated type to byte boundary
- Added references to DOCSIS 2.0 specifications to multiple objects
- Clarified non-persistency across reboots for all tables
- Clarified functionality of docsDevSw objects as they relate to docsDevSwOperStatus

- Clarified enumerated types (9) and (10) for
  docsDevServerBootState
- Defined the state of unknown(0) for the following
  objects: docsDevServerDhcpAddressType,
  docsDevServerTimeAddressType,
  docsDevServerConfigTftpAddressType and
  docsDevServerConfigTftpAddressType
- Modified the value in docsDevFilterIpDaddr to be
  consistent with the SYNTAX
- Specified which rows could be modified in an
  active row for docsDevFilterPolicyStatus
- Defined the term 'manually' in docsDevCpeEnroll
- Clarified the description for
  docsDevFilterTosOrMask
- Covered the case of a non-existent row for
  docsDevFilterPolicyPtr
- Added DEFVAL clauses for multiple
objects
- Replaced docsDevNotification OBJECT IDENTIFIER
  with docsDevNotifications to address possible
  compatibility issues

- Added support for the usage of RFC 3413 and RFC 3014
  as event notification mechanisms
- Removed docsDevFilterPolicyObsoleteGroup
- Added stdInterface(9) type to docsDevEvReporting to
  support the usage of RFC3413 and RFC3014
- Modified DESCRIPTION for docsDevMaxCpe"

    REVISION "199908190000Z"
    DESCRIPTION
      "Initial version, published as RFC 2669."

    ::= { mib-2 69 }

docsDevMIBObjects OBJECT IDENTIFIER ::= { docsDev 1 }

docsDevBase OBJECT IDENTIFIER ::= { docsDevMIBObjects 1 }

--
-- For the following object, there is no concept in the
-- RFI specification corresponding to a backup CMTS. The
-- enumeration is provided here in case someone is able
-- to define such a role or device.
--

```
docsDevRole OBJECT-TYPE
      SYNTAX INTEGER {
         cm(1),
         cmtsActive(2),
         cmtsBackup(3)
      }
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "Defines the current role of this device.  cm(1) is a
         Cable Modem, cmtsActive(2) is a Cable Modem Termination
         System that is controlling the system of cable modems,
         and cmtsBackup(3) is a CMTS that is currently connected
         but is not controlling the system (not currently used).

         In general, if this device is a 'cm', its role will not
         change during operation or between reboots.  If the
         device is a 'cmts' it may change between cmtsActive and
         cmtsBackup and back again during normal operation.  NB:
         At this time, the DOCSIS standards do not support the
         concept of a backup CMTS, but cmtsBackup is included for
         completeness."
      ::= { docsDevBase 1 }



docsDevDateTime
 OBJECT-TYPE
      SYNTAX      DateAndTime
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "The current date and time, with time zone information
         (if known).

         If the real data and time cannot be determined, this
         shall represent elapsed time from boot relative to
         the standard epoch '1970-1-1,0:0:0.0'.  In other
         words, if this agent has been up for 3 minutes and
         not been able to determine what the actual date and
         time are, this object will return the value
         '1970-1-1,0:03:0.0'."
      ::= { docsDevBase 2 }

docsDevResetNow OBJECT-TYPE
      SYNTAX      TruthValue
      MAX-ACCESS  read-write
```

```
        STATUS      current
        DESCRIPTION
            "Setting this object to true(1) causes the device to
             reset.  Reading this object always returns false(2)."
        ::= { docsDevBase 3 }

docsDevSerialNumber
 OBJECT-TYPE
        SYNTAX      SnmpAdminString
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The manufacturer's serial number for this device."
        ::= { docsDevBase 4 }

docsDevSTPControl OBJECT-TYPE
        SYNTAX INTEGER {
            stEnabled(1),
            noStFilterBpdu(2),
            noStPassBpdu(3)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "This object controls operation of the spanning tree
             protocol (as distinguished from transparent bridging).

             If set to stEnabled(1), then the spanning tree protocol
             is enabled, subject to bridging constraints.



             If noStFilterBpdu(2), then spanning tree is not active,
             and Bridge PDUs received are discarded.

             If noStPassBpdu(3), then spanning tree is not active,
             and Bridge PDUs are transparently forwarded.

             Note that a device need
 not implement all of these
             options, but that noStFilterBpdu(2) is required."
        DEFVAL { noStFilterBpdu }
        ::= { docsDevBase 5 }

docsDevIgmpModeControl OBJECT-TYPE
        SYNTAX INTEGER {
            passive(1),
            active(2)
```

```
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "This object controls the IGMP mode of operation for
            the CM or CMTS.  In passive mode, the device forwards
            IGMP between interfaces as based on knowledge of
            Multicast Session activity on the subscriber side
            interface and the rules defined in the DOCSIS RFI
            specification.  In active mode, the device terminates
            at and initiates IGMP through its interfaces as based
            on the knowledge of Multicast Session activity on the
            subscriber side interface."
        REFERENCE
           "DOCSIS RFI 1.1 Specification, Section 3.3.1. and

            DOCSIS RFI 2.0 Specification, Section 5.3.1."
        DEFVAL { passive }
        ::= { docsDevBase 6 }

docsDevMaxCpe OBJECT-TYPE
        SYNTAX      Unsigned32 (0..255)
        UNITS       "CPEs"
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The maximum number of CPEs that can be granted access
            through a CM during a CM epoch.  This value can be
            obtained from the CM configuration file; however,
            it may be adjusted by the CM according to hardware or
            software limitations that have been imposed on the
            implementation."
        REFERENCE
           "DOCSIS RFI 1.0 Specification, Appendix C.7.20., and




            DOCSIS RFI 1.1 Specification, Appendix C.1.1.7. and
            DOCSIS RFI 2.0 Specification, Appendix C.1.1.7."
        ::= { docsDevBase 7 }



--
-- The following table provides one level of security for access
-- to the device by network management stations.
--
 Note that access is also constrained by the
-- community strings and any vendor-specific security.
```

```
--

docsDevNmAccessTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsDevNmAccessEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "This table controls access to SNMP objects by network
         management stations.  If the table is empty, access to
         SNMP objects is unrestricted.  The objects in this table
         MUST NOT persist across reboots.  The objects in this
         table are only accessible from cable devices that are
         not capable of operating in SNMP Coexistence mode
         (RFC 3584) or in SNMPv3 mode (RFC 3410).
         See the conformance section for
         details.  Note that some devices are required by other
         specifications (e.g., the DOCSIS OSSIv1.1 specification)
         to support the legacy SNMPv1/v2c docsDevNmAccess mode
         for
 backward compatibility.

         This table is deprecated.  Instead, use the SNMP
         coexistence MIBs from RFC 3584, the TARGET and
         NOTIFICATION MIBs from RFC 3413, and
         the View-Based Access Control Model (VACM) MIBs for
         all SNMP protocol versions from RFC 3415."
    ::= { docsDevMIBObjects 2 }

docsDevNmAccessEntry OBJECT-TYPE
    SYNTAX      DocsDevNmAccessEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "An entry describing access to SNMP objects by a
         particular network management station.  An entry in
         this table is not readable unless the management station
         has read-write permission (either implicit if the table
         is empty, or explicit through an entry in this table).
         Entries are ordered by docsDevNmAccessIndex.  The first




         matching entry (e.g., matching IP address and community

  string) is used to derive access."
    INDEX { docsDevNmAccessIndex }
    ::= {  docsDevNmAccessTable 1 }
```

```
DocsDevNmAccessEntry ::= SEQUENCE {
        docsDevNmAccessIndex        Integer32,
        docsDevNmAccessIp           IpAddress,
        docsDevNmAccessIpMask       IpAddress,
        docsDevNmAccessCommunity    OCTET STRING,
        docsDevNmAccessControl      INTEGER,
        docsDevNmAccessInterfaces   OCTET STRING,
        docsDevNmAccessStatus       RowStatus,
        docsDevNmAccessTrapVersion  INTEGER
    }

docsDevNmAccessIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "Index used to order the application of access
        entries."
    ::= { docsDevNmAccessEntry 1 }

docsDevNmAccessIp OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The IP address (or subnet) of the network management
        station.  The address 0.0.0.0 is defined to mean
        any Network Management Station (NMS).  If traps are
        enabled for this entry, then the value must be the
        address of a specific device.  Implementations MAY
        recognize 255.255.255.255 as equivalent to 0.0.0.0."
    DEFVAL { '00000000'h }
    ::= { docsDevNmAccessEntry 2 }

docsDevNmAccessIpMask OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The IP subnet mask of the network management stations.
        If traps are enabled for this entry, then the value must
        be 0.0.0.0.  Implementations MAY recognize
        255.255.255.255 as equivalent to 0.0.0.0."



    DEFVAL { '00000000'h }
    ::= { docsDevNmAccessEntry 3 }
```

```
docsDevNmAccessCommunity OBJECT-TYPE
      SYNTAX      OCTET
 STRING
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "The community string to be matched for access by this
          entry.  If set to a zero-length string, then any
          community string will match.  When read, this object
          SHOULD return a zero-length string."
      DEFVAL { "public" }
      ::= { docsDevNmAccessEntry 4 }

docsDevNmAccessControl OBJECT-TYPE
      SYNTAX        INTEGER {
         none(1),
         read(2),
         readWrite(3),
         roWithTraps(4),
         rwWithTraps(5),
         trapsOnly(6)
      }
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "Specifies the type of access allowed to this NMS.
          Setting this object to none(1) causes the table entry
          to be destroyed.  Read(2) allows access by 'get' and
          'get-next' PDUs.  ReadWrite(3) allows access by 'set' as
          well.
  RoWithtraps(4), rwWithTraps(5), and trapsOnly(6)
          control distribution of Trap PDUs transmitted by this
          device."
      DEFVAL { read }
      ::= { docsDevNmAccessEntry 5 }

-- The syntax of the following object was copied from RFC 1493,
-- dot1dStaticAllowedToGoTo.

docsDevNmAccessInterfaces OBJECT-TYPE
      SYNTAX      OCTET STRING (SIZE (1..32))
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "Specifies the set of interfaces from which requests from
          this NMS will be accepted.  Each octet within
          the value of this object specifies a set of eight
```

interfaces, the first octet specifying ports 1
through 8, the second octet specifying interfaces 9
through 16, etc. Within each octet, the most
significant bit represents the lowest numbered
interface, and the least significant bit represents the
highest numbered
interface. Thus, each interface is
represented by a single bit within the value of this
object. If that bit has a value of '1' then that
interface is included in the set.

Note that entries in this table apply only to link-layer
interfaces (e.g., Ethernet and CATV MAC). Bits
representing upstream and downstream channel interfaces
MUST NOT be set to '1'.

Note that if bits corresponding to non-existing
interfaces are set, the result is implementation
specific.

Note that according to the DOCSIS OSSIv1.1
specification, when ifIndex '1' is included in the
set, then this row applies to all CPE
(customer-facing) interfaces.

The size of this object is the minimum required to
represent all configured interfaces for this device."
::= { docsDevNmAccessEntry 6 }

docsDevNmAccessStatus
OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"Controls and reflects the status of rows in this
table. Rows in this table may be created by either the
create-and-go or create-and-wait paradigm. There is no
restriction on changing values in a row of this table
while the row is active.

The following objects MUST have valid values before this
object can be set to active: docsDevNmAccessIp,
docsDevNmAccessStatus, docsDevNmAccessIpMask,
docsDevNmAccessCommunity, docsDevNmAccessControl, and

```
            docsDevNmAccessInterfaces."
        ::= { docsDevNmAccessEntry 7 }

docsDevNmAccessTrapVersion OBJECT-TYPE
        SYNTAX      INTEGER {




            disableSNMPv2trap(1),
            enableSNMPv2trap(2)
        }
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "Specifies the TRAP version that is sent to this NMS.
            Setting this object to disableSNMPv2trap (1) causes the
            trap in SNMPv1 format to be sent to a particular NMS.
            Setting this object to enableSNMPv2trap (2) causes the
            trap in SNMPv2 format be sent to a particular NMS."
        DEFVAL { disableSNMPv2trap }
        ::= { docsDevNmAccessEntry 8 }

--
-- The following group describes control objects used for downloading
-- firmware to a cable device.  Procedures for software download are
-- described in Section 3.2.1 of the RFC containing this MIB module.
--

docsDevSoftware OBJECT IDENTIFIER ::= { docsDevMIBObjects 3 }

docsDevSwServer OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-write
        STATUS      deprecated
        DESCRIPTION
            "The address of the TFTP server used for software
            upgrades.  If the TFTP server is unknown or is a
            non-IPv4 address, return
 0.0.0.0.

            This object is deprecated.  See docsDevSwServerAddress
            for its replacement.  This object will have its value
            modified, given a valid SET to docsDevSwServerAddress."
        ::= { docsDevSoftware 1 }

docsDevSwFilename OBJECT-TYPE
        SYNTAX      SnmpAdminString (SIZE (0..64))
        MAX-ACCESS  read-write
```

```
        STATUS      current
        DESCRIPTION
            "The filename of the software image to be downloaded via
             TFTP, or the abs_path (as defined in RFC 2616) of the
             software image to be downloaded via HTTP.

             Unless set via SNMP, this is the filename or abs_path
             specified by the provisioning server during the boot
             process that corresponds to the software version that




             is desired for this device.

             If unknown, the value of this object is the zero-length
             string."
        ::= { docsDevSoftware 2 }

docsDevSwAdminStatus OBJECT-TYPE
        SYNTAX INTEGER {
            upgradeFromMgt(1),
            allowProvisioningUpgrade(2),
            ignoreProvisioningUpgrade(3)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "If set to upgradeFromMgt(1), the device will initiate a
             TFTP or HTTP software image download.  After
             successfully receiving an image, the device will set
             its state to ignoreProvisioningUpgrade(3) and reboot.
             If the download process is interrupted (e.g., by a reset
             or power failure), the device will load the previous
             image and, after re-initialization, continue to attempt
             loading the image specified in docsDevSwFilename.

             If set to allowProvisioningUpgrade(2), the device will
             use the software version information supplied by the
             provisioning server when next rebooting (this does not
             cause a reboot).


            When set to ignoreProvisioningUpgrade(3), the device
             will disregard software image upgrade information
             from the provisioning server.

             Note that reading this object can return
             upgradeFromMgt(1).  This indicates that a software
```

```
            download is currently in progress, and that the device
            will reboot after successfully receiving an image."
        DEFVAL { allowProvisioningUpgrade }
        ::= { docsDevSoftware 3 }

    docsDevSwOperStatus OBJECT-TYPE
        SYNTAX INTEGER {
            inProgress(1),
            completeFromProvisioning(2),
            completeFromMgt(3),
            failed(4),
            other(5)
        }



        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "InProgress(1) indicates that a TFTP or HTTP download is
            underway, either as a result of a version mismatch at
            provisioning or as a result of a upgradeFromMgt request.

            No other docsDevSw* objects can be modified in
            this state.

            CompleteFromProvisioning(2) indicates that the last
            software upgrade was a result of version mismatch at
            provisioning.

            CompleteFromMgt(3) indicates that the last software
            upgrade was a result of setting docsDevSwAdminStatus to
            upgradeFromMgt.

            Failed(4) indicates that the last attempted download
            failed, ordinarily due to TFTP or HTTP timeout."
        REFERENCE
            "DOCSIS RFI 1.0 Specification, Section 8.2., and
            DOCSIS RFI 1.1 Specification, Section 10.1. and
            DOCSIS RFI 2.0 Specification, Section 12.1."
        ::= { docsDevSoftware 4 }

    docsDevSwCurrentVers OBJECT-TYPE
        SYNTAX      SnmpAdminString
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The software version currently operating in this device.
```

This
string's syntax is that used by the
individual vendor to identify software versions.
For a CM, this string will describe the current
software load. For a CMTS, this object SHOULD contain
a human-readable representation either of the vendor
specific designation of the software for the chassis,
or of the software for the control processor. If
neither of these is applicable, the value MUST be a
zero-length string."
::= { docsDevSoftware 5 }

docsDevSwServerAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The type of address of the TFTP or HTTP server used for

software upgrades.

If docsDevSwServerTransportProtocol is currently set to
tftp(1), attempting to set this object to dns(16) MUST
result in an error."
::=
{ docsDevSoftware 6 }

docsDevSwServerAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The address of the TFTP or HTTP server used for software
upgrades.

If the TFTP/HTTP server is unknown, return the zero-
length address string (see the TextualConvention).

If docsDevSwServer is also implemented in this agent,
this object is tied to it. A set of this object to an
IPv4 address will result in also setting the value of
docsDevSwServer to that address. If this object is set
to an IPv6 address, docsDevSwServer is set to 0.0.0.0.
If docsDevSwServer is set, this object is also set to
that value. Note that if both are set in the same
action, the order of which one sets the other is

```
            undefined."
        ::= { docsDevSoftware 7 }

docsDevSwServerTransportProtocol
 OBJECT-TYPE
        SYNTAX INTEGER {
           tftp(1),
           http(2)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "This object specifies the transport protocol (TFTP or
            HTTP) to be used for software upgrades.

            If the value of this object is tftp(1), then the cable
            device uses TFTP (RFC 1350) read request packets to
            download the docsDevSwFilename from the
            docsDevSwServerAddress in octet mode.

            If the value of this object is http(2), then the cable
            device uses HTTP 1.0 (RFC 1945) or HTTP 1.1 (RFC 2616)
            GET requests sent to host docsDevSwServerAddress to




            download the software image from path docsDevSwFilename.

            If docsDevSwServerAddressType is currently set to
            dns(16), attempting to set this object to tftp(1) MUST
            result in an error."
        DEFVAL
 { tftp }
        ::= { docsDevSoftware 8 }

--
-- The following group describes server access and parameters used
-- for initial provisioning and bootstrapping.
--

docsDevServer OBJECT IDENTIFIER ::= { docsDevMIBObjects 4 }

docsDevServerBootState OBJECT-TYPE
        SYNTAX INTEGER {
           operational(1),
           disabled(2),
           waitingForDhcpOffer(3),
           waitingForDhcpResponse(4),
```

```
        waitingForTimeServer(5),
        waitingForTftp(6),
        refusedByCmts(7),
        forwardingDenied(8),
        other(9),
        unknown(10)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "If operational(1), the device has completed loading and
        processing of configuration parameters, and the CMTS has
        completed the Registration exchange.

        If disabled(2), then the device was administratively
        disabled, possibly by being refused network access
in
        the configuration file.

        If waitingForDhcpOffer(3), then a Dynamic Host
        Configuration Protocol (DHCP) Discover has been
        transmitted, and no offer has yet been received.

        If waitingForDhcpResponse(4), then a DHCP Request has
        been transmitted, and no response has yet been received.

        If waitingForTimeServer(5), then a Time Request has been
        transmitted, and no response has yet been received.



        If waitingForTftp(6), then a request to the TFTP
        parameter server has been made, and no response
        received.

        If refusedByCmts(7), then the Registration
        Request/Response exchange with the CMTS failed.

        If forwardingDenied(8), then the registration process
        was completed, but the network access option in the
        received configuration file prohibits forwarding.

        If other(9), then the registration
process reached a
        point that does not fall into one of the above
        categories.

        If unknown(10), then the device has not yet begun the
```

```
            registration process or is in some other indeterminate
            state."
        REFERENCE
            "DOCSIS RFI 1.0 Specification, Figure 7-1, and
            DOCSIS RFI 1.1 Specification, Figure 9-1 and
            DOCSIS RFI 2.0 Specification, Figure 11-1."
        ::= { docsDevServer 1 }

docsDevServerDhcp OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "The IP address of the DHCP server that assigned an IP
            address to this device.  Returns 0.0.0.0 if DHCP is not
            used for IP address assignment, or if this agent is
            not assigned an IPv4 address.

            This object is deprecated and is replaced by
            docsDevServerDhcpAddress."
        ::= { docsDevServer
 2 }

docsDevServerTime OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "The IP address of the Time server (RFC 0868).  Returns
            0.0.0.0 if the time server IP address is unknown, or if
            the time server is not an IPv4 server.

            This object is deprecated and is replaced by




            docsDevServerTimeAddress."
        ::= { docsDevServer 3 }

docsDevServerTftp OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "The IP address of the TFTP server responsible for
            downloading provisioning and configuration parameters
            to this device.  Returns 0.0.0.0 if the TFTP server
            address is unknown or is not an IPv4 address.
```

```
            This object is deprecated and is replaced by
            docsDevServerConfigTftpAddress."
        ::= { docsDevServer
 4 }

docsDevServerConfigFile OBJECT-TYPE
        SYNTAX      SnmpAdminString
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The name of the device configuration file read from
            the TFTP server.  Returns a zero-length string if
            the configuration file name is unknown."
        ::= { docsDevServer 5 }

docsDevServerDhcpAddressType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The type of address of docsDevServerDhcpAddress.  If
            DHCP was not used, this value should return
            unknown(0)."
        ::= { docsDevServer 6 }

docsDevServerDhcpAddress OBJECT-TYPE
        SYNTAX      InetAddress
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The internet address of the DHCP server that assigned
            an IP address to this device.  Returns the zero length

          octet string if DHCP was not used for IP address
            assignment."
        ::= { docsDevServer 7 }




docsDevServerTimeAddressType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The type of address of docsDevServerTimeAddress.  If
            no time server exists, this value should return
```

```
            unknown(0)."
        ::= { docsDevServer 8 }

    docsDevServerTimeAddress OBJECT-TYPE
        SYNTAX      InetAddress
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The Internet address of the RFC 868 Time server,
            as provided by DHCP option 4.

            Note that if multiple values are provided to the
            CM in DHCP option 4, the value of this MIB object
            MUST be the Time server address from which the Time
            of Day reference was acquired as based on the DOCSIS
            RFI specification.
     During the period of time where
            the Time of Day have not been acquired, the Time
            server address reported by the CM may report the
            first address value in the DHCP option value or the
            last server address the CM attempted to get the Time
            of day value.

            Returns the zero-length octet string if the time server
            IP address is not provisioned."
        REFERENCE
            "DOCSIS RFI 1.1 Specification, Section 9.2.7. and
            DOCSIS RFI 2.0 Specification, Section 11.2.7."
        ::= { docsDevServer 9 }

    docsDevServerConfigTftpAddressType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The type of address of docsDevServerConfigTftpAddress.
            If no TFTP server exists, this value should return
            unknown(0)."
        ::= { docsDevServer 10 }

    docsDevServerConfigTftpAddress OBJECT-TYPE
         SYNTAX      InetAddress



        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
```

```
          "The internet address of the TFTP server responsible for
           downloading provisioning and configuration parameters
           to this device.  Returns the zero-length octet string if
           the config server address is unknown.  There are certain
           security risks that are involved with using TFTP."
       REFERENCE
          "RFC 3617, Section 5"
       ::= { docsDevServer 11 }


--
-- Event Reporting
--

docsDevEvent OBJECT IDENTIFIER ::= { docsDevMIBObjects 5 }

docsDevEvControl OBJECT-TYPE
       SYNTAX INTEGER {
          resetLog(1),
          useDefaultReporting(2)
       }
       MAX-ACCESS  read-write
       STATUS      current
       DESCRIPTION
          "Setting this object to resetLog(1) empties the event
           log.  All data is deleted.  Setting it to
           useDefaultReporting(2) returns all event
 priorities to
           their factory-default reporting.  Reading this object
           always returns useDefaultReporting(2)."
       ::= { docsDevEvent 1 }

docsDevEvSyslog OBJECT-TYPE
       SYNTAX      IpAddress
       MAX-ACCESS  read-write
       STATUS      deprecated
       DESCRIPTION
          "The IP address of the Syslog server.  If 0.0.0.0, either
           syslog transmission is inhibited, or the Syslog server
           address is not an IPv4 address.

           This object is deprecated and is replaced by
           docsDevEvSyslogAddress."
       ::= { docsDevEvent 2 }

docsDevEvThrottleAdminStatus OBJECT-TYPE
```

```
        SYNTAX INTEGER {
            unconstrained(1),
            maintainBelowThreshold(2),
            stopAtThreshold(3),
            inhibited(4)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "Controls the transmission of traps and syslog messages
             with respect
    to the trap pacing threshold.

             unconstrained(1) causes traps and syslog messages to be
             transmitted without regard to the threshold settings.

             maintainBelowThreshold(2) causes trap transmission and
             syslog messages to be suppressed if the number of traps
             would otherwise exceed the threshold.

             stopAtThreshold(3) causes trap transmission to cease at
             the threshold and not to resume until directed to do so.

             inhibited(4) causes all trap transmission and syslog
             messages to be suppressed.

             A single event is always treated as a single event for
             threshold counting.  That is, an event causing both a
             trap and a syslog message is still treated as a single
             event.

             Writing to this object resets the thresholding state."
        DEFVAL { unconstrained }
        ::= { docsDevEvent 3 }

    docsDevEvThrottleInhibited OBJECT-TYPE
         SYNTAX      TruthValue
        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "If true(1), trap and syslog transmission is currently
             inhibited due to thresholds and/or the current setting
             of docsDevEvThrottleAdminStatus.  In addition, this is
             true(1) when transmission is inhibited because no
             syslog (docsDevEvSyslog) or trap (docsDevNmAccessEntry)
             destinations have been set.
```

```
            This object is deprecated and is replaced by
            docsDevEvThrottleThresholdExceeded."



        ::= { docsDevEvent 4 }

docsDevEvThrottleThreshold OBJECT-TYPE
        SYNTAX      Unsigned32
        UNITS       "events"
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "Number of events per docsDevEvThrottleInterval permitted
            before throttling is to occur.

            A single event, whether the notification could result in

          messages transmitted using syslog, SNMP, or both
            protocols, and regardless of the number of destinations,
            (including zero) is always treated as a single event for
            threshold counting.  For example, an event causing both
            a trap and a syslog message is still treated as a single
            event.

            All system notifications that occur within the device
            should be taken into consideration when calculating
            and monitoring the threshold."
        DEFVAL { 0 }
        ::= { docsDevEvent 5 }

docsDevEvThrottleInterval OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        UNITS       "seconds"
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "The interval over which docsDevEvThrottleThreshold
            applies."
        DEFVAL { 1 }
        ::= { docsDevEvent 6 }

--
-- The following table controls the reporting of the various classes
-- of events.
--

docsDevEvControlTable
```

```
 OBJECT-TYPE
     SYNTAX      SEQUENCE OF DocsDevEvControlEntry
     MAX-ACCESS  not-accessible
     STATUS      current
     DESCRIPTION
        "This table allows control of the reporting of event
         classes.  For each event priority, a combination of




         logging and reporting mechanisms may be chosen.  The
         mapping of event types to priorities is
         vendor dependent.  Vendors may also choose to allow
         the user to control that mapping through proprietary
         means.  Table entries MUST persist across reboots for
         CMTS devices and MUST NOT persist across reboots for CM
         devices."
     ::= {  docsDevEvent 7 }

docsDevEvControlEntry OBJECT-TYPE
     SYNTAX      DocsDevEvControlEntry
     MAX-ACCESS  not-accessible
     STATUS      current
     DESCRIPTION
        "Allows configuration of the reporting mechanisms for a
         particular
 event priority."
     INDEX { docsDevEvPriority }
     ::= { docsDevEvControlTable 1 }

DocsDevEvControlEntry ::= SEQUENCE {
        docsDevEvPriority       INTEGER,
        docsDevEvReporting      BITS
     }

docsDevEvPriority OBJECT-TYPE
     SYNTAX INTEGER {
        emergency(1),
        alert(2),
        critical(3),
        error(4),
        warning(5),
        notice(6),
        information(7),
        debug(8)
     }
     MAX-ACCESS  not-accessible
     STATUS      current
```

```
        DESCRIPTION
            "The priority level that is controlled by this
             entry.  These are ordered from most (emergency) to least
             (debug) critical.  Each event with a CM or CMTS has a
             particular priority level associated with it (as defined
             by the vendor).

             emergency(1) events indicate vendor-specific fatal
             hardware or software errors that prevent normal system
              operation.




             alert(2) events indicate a serious failure that causes
             the reporting system to reboot but is not caused by
             hardware or software malfunctioning.

             critical(3) events indicate a serious failure that
             requires attention and prevents the device from
             transmitting data but that could be recovered without
             rebooting the system.

             error(4) and warning(5) events indicate that a failure
             occurred that could interrupt the normal data flow but
             that does not cause the device to re-register.

             notice(6) and information(7) events indicate a
             milestone or checkpoint in normal operation that could
             be of particular importance for troubleshooting.

             debug(8) events are reserved for vendor-specific
             events.

             During normal operation, no event more
             critical than notice(6)
      should be generated.  Events
             between warning and emergency should be generated at
             appropriate levels of problems (e.g., emergency when the
             box is about to crash)."
        ::= { docsDevEvControlEntry 1 }

    docsDevEvReporting OBJECT-TYPE
        SYNTAX BITS {
            local(0),
            traps(1),
            syslog(2),
            -- The following are extensions to the original set of
```

```
        -- labels.  The extensions start at an octet boundary.
        -- So for bits 3 - 7, one MUST set them to zero on send
        -- and one MUST ignore them on receipt.
        localVolatile(8),
        stdInterface(9)
      }
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
        "Defines the action to be taken on occurrence of this
        event class.  Implementations may not necessarily
        support all options for all event classes but at
        minimum must allow traps and
syslogging to be
        disabled.



        If the local(0) bit is set, then log to the internal
        log and update non-volatile store, for backward
        compatibility with the original RFC 2669 definition.
        If the traps(1) bit is set, then generate
        an SNMP trap; if the syslog(2) bit is set, then
        send a syslog message (assuming that the syslog address
        is set).  If the localVolatile(8) bit is set, then
        log to the internal log without updating non-volatile
        store.  If the stdInterface(9) bit is set, then the
        agent ignores all other bits except the local(0),
        syslog(2), and localVolatile(8) bits.  Setting the
        stdInterface(9) bit indicates that RFC3413 and
        RFC3014 are being used to control event reporting
        mechanisms."
      ::= { docsDevEvControlEntry 2 }

docsDevEventTable OBJECT-TYPE
      SYNTAX      SEQUENCE OF DocsDevEventEntry
       MAX-ACCESS  not-accessible
      STATUS      current
      DESCRIPTION
        "Contains a log of network and device events that may be
        of interest in fault isolation and troubleshooting.
        If the local(0) bit is set in docsDevEvReporting,
        entries in this table MUST persist across reboots."
      ::= {  docsDevEvent 8 }

docsDevEventEntry OBJECT-TYPE
      SYNTAX      DocsDevEventEntry
```

```
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
           "Describes a network or device event that may be of
            interest in fault isolation and troubleshooting.
            Multiple sequential identical events are represented by
            incrementing docsDevEvCounts and setting
            docsDevEvLastTime to the current time rather than
            creating multiple rows.

            Entries are created with the first occurrence of an
            event.  docsDevEvControl can
    be used to clear the
            table.  Individual events cannot be deleted."
        INDEX { docsDevEvIndex }
        ::= { docsDevEventTable 1 }

    DocsDevEventEntry ::= SEQUENCE {
            docsDevEvIndex          Integer32,
            docsDevEvFirstTime      DateAndTime,




            docsDevEvLastTime       DateAndTime,
            docsDevEvCounts         Counter32,
            docsDevEvLevel          INTEGER,
            docsDevEvId             Unsigned32,
            docsDevEvText           SnmpAdminString
        }

    docsDevEvIndex OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
           "Provides relative ordering of the objects in the event
            log.  This object will always increase except when
            (a) the log is reset via docsDevEvControl,
            (b) the device reboots and does not implement
            non-volatile storage for this log, or (c)
     it reaches
            the value 2^31.  The next entry for all the above
            cases is 1."
        ::= { docsDevEventEntry 1 }

    docsDevEvFirstTime OBJECT-TYPE
        SYNTAX      DateAndTime
        MAX-ACCESS  read-only
```

```
        STATUS      current
        DESCRIPTION
            "The value of docsDevDateTime at the time this entry was
             created."
        ::= { docsDevEventEntry 2 }

docsDevEvLastTime OBJECT-TYPE
        SYNTAX      DateAndTime
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "When an entry reports only one event, this object will
             have the same value as the corresponding instance of
             docsDevEvFirstTime.  When an entry reports multiple
             events, this object will record the value that
             docsDevDateTime had when the most recent event for this
             entry occurred."
        ::= { docsDevEventEntry 3 }

-- This object was renamed from docsDevEvCount to meet naming
--
 requirements for Counter32
docsDevEvCounts OBJECT-TYPE
        SYNTAX      Counter32
        UNITS       "events"



        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "The number of consecutive event instances reported by
             this entry.  This starts at 1 with the creation of this
             row and increments by 1 for each subsequent duplicate
             event."
        ::= { docsDevEventEntry 4 }
docsDevEvLevel OBJECT-TYPE
        SYNTAX INTEGER {
            emergency(1),
            alert(2),
            critical(3),
            error(4),
            warning(5),
            notice(6),
            information(7),
            debug(8)
        }
        MAX-ACCESS  read-only
```

```
        STATUS      current
        DESCRIPTION
            "The priority level of this event, as defined by the
             vendor.  These are ordered from most serious (emergency)
             to least serious (debug).

             emergency(1) events
indicate vendor-specific fatal
             hardware or software errors that prevent normal system
             operation.

             alert(2) events indicate a serious failure that causes
             the reporting system to reboot but that is not caused by
             hardware or software malfunctioning.

             critical(3) events indicate a serious failure that
             requires attention and prevents the device from
             transmitting data but that could be recovered without
             rebooting the system.

             error(4) and warning(5) events indicate that a failure
             occurred that could interrupt the normal data flow but
             that does not cause the device to re-register.

             notice(6) and information(7) events indicate a
             milestone or checkpoint in normal operation that could
             be of particular importance for troubleshooting.

             debug(8) events are reserved for vendor-specific




            events.

             During normal operation, no event more
             critical than notice(6) should be generated.  Events
             between warning and emergency should be generated at
             appropriate levels of problems (e.g., emergency when the
             box is about to crash)."
        ::= { docsDevEventEntry 5 }

--
-- It is strongly recommended that implementors follow the CableLabs
-- enumerations for docsDevEvId, per the DOCSIS OSSIv1.1 spec
-- and follow-on specifications.
--
```

```
docsDevEvId OBJECT-TYPE
      SYNTAX      Unsigned32
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "For this product, uniquely identifies the type of event
          that is reported by this entry."
      REFERENCE
         "DOCSIS OSSI 1.1 Specification, Appendix H and
          DOCSIS OSSI 2.0 Specification, Annex D."
      ::= { docsDevEventEntry 6 }

docsDevEvText OBJECT-TYPE
      SYNTAX      SnmpAdminString

     MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "Provides a human-readable description of the event,
          including all relevant context (interface numbers,
          etc.)."
      ::= { docsDevEventEntry 7 }

docsDevEvSyslogAddressType OBJECT-TYPE
      SYNTAX      InetAddressType
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "The type of address of docsDevEvSyslogAddress.  If
          no syslog server exists, this value should return
          unknown(0)."
      DEFVAL { unknown }
      ::= { docsDevEvent 9 }




docsDevEvSyslogAddress OBJECT-TYPE
      SYNTAX      InetAddress
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "The Internet address of the Syslog server, as provided
          by DHCP option 7 or set via SNMP management.  If the
          address of the server is set to the zero-length
          string, the 0.0.0.0
 IPv4 address, or the 0: IPv6
          address, Syslog transmission is inhibited.
```

```
            Note that if multiple values are provided to the CM in
            DHCP option 7, the value of this MIB object MUST be the
            first Syslog server address received.

            By default at agent boot, this object returns the zero
            length string."
        ::= { docsDevEvent 10 }

docsDevEvThrottleThresholdExceeded OBJECT-TYPE
        SYNTAX TruthValue
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "If true(1), trap and syslog transmission is currently
            inhibited due to exceeding the trap/syslog event
            threshold in the current interval."
        ::= { docsDevEvent 11 }

--
-- Link Level Control Filtering
--

docsDevFilter OBJECT IDENTIFIER ::= { docsDevMIBObjects 6 }

docsDevFilterLLCUnmatchedAction OBJECT-TYPE
        SYNTAX INTEGER {
            discard(1),
            accept(2)
        }
        MAX-ACCESS
    read-write
        STATUS      current
        DESCRIPTION
            "LLC (Link Level Control) filters can be defined on an
            inclusive or exclusive basis: CMs can be configured to
            forward only packets matching a set of layer three
            protocols, or to drop packets matching a set of layer
            three protocols.  Typical use of these filters is to



            filter out possibly harmful (given the context of a
            large metropolitan LAN) protocols.

            If set to discard(1), any L2 packet that does not match
            at least one filter in the docsDevFilterLLCTable will be
            discarded.  If set to accept(2), any L2 packet that
```

```
          does not match at least one filter in the
          docsDevFilterLLCTable will be accepted for further
          processing (e.g., bridging).  In other words, if the
          packet does not match an entry in the table, it takes
          this action;
 if it does match an entry in the table, it
          takes the opposite of this action."
      DEFVAL { accept }
      ::= { docsDevFilter 1 }

docsDevFilterLLCTable OBJECT-TYPE
      SYNTAX      SEQUENCE OF DocsDevFilterLLCEntry
      MAX-ACCESS  not-accessible
      STATUS      current
      DESCRIPTION
         "A list of filters to apply to (bridged) LLC
          traffic.  The filters in this table are applied to
          incoming traffic on the appropriate interface(s)  prior
          to any further processing (e.g., before the packet
          is handed off for level 3 processing, or for bridging).
          The specific action taken when no filter is matched is
          controlled by docsDevFilterLLCUnmatchedAction.  Table
          entries MUST NOT persist across reboots for any device."
      ::= { docsDevFilter 2 }

docsDevFilterLLCEntry OBJECT-TYPE
      SYNTAX      DocsDevFilterLLCEntry
      MAX-ACCESS  not-accessible

    STATUS      current
      DESCRIPTION
         "Describes a single filter to apply to (bridged) LLC
          traffic received on a specified interface. "
      INDEX { docsDevFilterLLCIndex }
      ::= { docsDevFilterLLCTable 1 }

DocsDevFilterLLCEntry ::= SEQUENCE {
          docsDevFilterLLCIndex             Integer32,
          docsDevFilterLLCStatus            RowStatus,
          docsDevFilterLLCIfIndex           InterfaceIndexOrZero,
          docsDevFilterLLCProtocolType      INTEGER,
          docsDevFilterLLCProtocol          Integer32,
          docsDevFilterLLCMatches           Counter32
      }



docsDevFilterLLCIndex OBJECT-TYPE
```

```
        SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "Index used for the identification of filters (note that
            LLC filter order is irrelevant)."
        ::= { docsDevFilterLLCEntry 1 }
docsDevFilterLLCStatus
 OBJECT-TYPE
        SYNTAX      RowStatus
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
            "Controls and reflects the status of rows in this
            table.  There is no restriction on changing any of the
            associated columns for this row while this object is set
            to active.

            Specifying only this object (with the
            appropriate index) on a CM is sufficient to create a
            filter row that matches all inbound packets on the
            ethernet interface and results in the packets being
            discarded.  docsDevFilterLLCIfIndex (at least) must be
            specified on a CMTS to create a row."
        ::= { docsDevFilterLLCEntry 2}

docsDevFilterLLCIfIndex OBJECT-TYPE
        SYNTAX      InterfaceIndexOrZero
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
            "The entry interface to which this filter applies.  The
            value corresponds
 to ifIndex for either a CATV MAC or
            another network interface.  If the value is zero, the
            filter applies to all interfaces.  In Cable Modems, the
            default value is the customer side interface(s).  In
            CMTSs, this object has to be specified to
            create a row in this table.

            Note that according to the DOCSIS OSSIv1.1
            specification, ifIndex '1' in the CM means that this
            row applies to all Cable Modem-to-CPE Interfaces
            (CMCI)."
        REFERENCE
            "DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and
            DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."
        ::= { docsDevFilterLLCEntry 3 }
```

```
docsDevFilterLLCProtocolType OBJECT-TYPE
      SYNTAX INTEGER {
         ethertype(1),
         dsap(2)
      }
      MAX-ACCESS  read-create
      STATUS      current
      DESCRIPTION
         "The format of the value in docsDevFilterLLCProtocol:
          either a two-byte Ethernet Ethertype, or a one-byte
          802.2 Service Access Point (SAP) value.  ethertype(1)
          also applies to Standard Network Access Protocol
          (SNAP) encapsulated frames."
      DEFVAL { ethertype }
      ::= { docsDevFilterLLCEntry 4 }

docsDevFilterLLCProtocol OBJECT-TYPE
      SYNTAX      Integer32 (0..65535)
      MAX-ACCESS  read-create
      STATUS      current
      DESCRIPTION
         "The layer-three protocol for which this filter applies.
          The protocol value format depends on
          docsDevFilterLLCProtocolType.  Note that for SNAP
          frames, ethertype filtering is performed rather than
          Destination Service Access Point (DSAP) =0xAA."
      DEFVAL { 0 }
      ::= { docsDevFilterLLCEntry 5 }

docsDevFilterLLCMatches OBJECT-TYPE
      SYNTAX      Counter32
      UNITS       "matches"
      MAX-ACCESS  read-only
      STATUS      current

    DESCRIPTION
         "Counts the number of times this filter was matched."
      ::= { docsDevFilterLLCEntry 6 }

--
-- IPv4 Filtering
--

docsDevFilterIpDefault OBJECT-TYPE
```

```
        SYNTAX INTEGER {
            discard(1),
            accept(2)
        }
        MAX-ACCESS  read-write



        STATUS      deprecated
        DESCRIPTION
            "The default behavior for (bridged) packets that do not
             match IP filters (or Internet filters, if implemented)
             is defined by docsDevFilterIpDefault.

             If set to discard(1), all packets not matching an IP
             filter in docsDevFilterIpTable will be discarded.  If
             set to accept(2), all packets not matching an IP filter
             or an Internet filter will be accepted for further
             processing (e.g., bridging)."
        DEFVAL { accept }
        ::= { docsDevFilter 3 }

    docsDevFilterIpTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevFilterIpEntry
        MAX-ACCESS
     not-accessible
        STATUS      deprecated
        DESCRIPTION
            "An ordered list of filters or classifiers to apply to
             IP traffic.  Filter application is ordered by the filter
             index, rather than by a best match algorithm (note that
             this implies that the filter table may have gaps in the
             index values).  Packets that match no filters will have
             policy 0 in the docsDevFilterPolicyTable applied to
             them, if it exists.  Otherwise, Packets that match no
             filters are discarded or forwarded according to the
             setting of docsDevFilterIpDefault.

             Any IP packet can theoretically match multiple rows of
             this table.  When considering a packet, the table is
             scanned in row index order (e.g., filter 10 is checked
             before filter 20).  If the packet matches that filter
             (which means that it matches ALL criteria for that
    row),
             actions appropriate to docsDevFilterIpControl and
             docsDevFilterPolicyId are taken.  If the packet was
             discarded processing is complete.  If
             docsDevFilterIpContinue is set to true, the filter
```

comparison continues with the next row in the table, looking for additional matches.

If the packet matches no filter in the table, the packet is accepted or dropped for further processing according to the setting of docsDevFilterIpDefault. If the packet is accepted, the actions specified by policy group 0 (e.g., the rows in docsDevFilterPolicyTable that have a value of 0 for docsDevFilterPolicyId) are taken, if that policy

group exists.

Logically, this table is consulted twice during the processing of any IP packet: once upon its acceptance from the L2 entity, and once upon
its transmission to
the L2 entity. In actuality, for cable modems, IP filtering is generally the only IP processing done for transit traffic. This means that inbound and outbound filtering can generally be done at the same time with one pass through the filter table.

The objects in this table are only accessible from cable devices that are not operating in DiffServ MIB mode (RFC 3289). See the conformance section for details.

Note that some devices are required by other specifications (e.g., the DOCSIS OSSIv1.1 specification) to support the legacy SNMPv1/v2c docsDevFilter mode for backward compatibility.

Table entries MUST NOT persist across reboots for any device.

This table is deprecated. Instead, use the DiffServ MIB from RFC 3289."
::= { docsDevFilter 4 }

docsDevFilterIpEntry
OBJECT-TYPE
SYNTAX DocsDevFilterIpEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"Describes a filter to apply to IP traffic received on a

```
            specified interface.  All identity objects in this table
            (e.g., source and destination address/mask, protocol,
            source/dest port, TOS/mask, interface and direction)
            must match their respective fields in the packet for
            any given filter to match.

            To create an entry in this table, docsDevFilterIpIfIndex
            must be specified."
        INDEX { docsDevFilterIpIndex }
        ::= { docsDevFilterIpTable 1 }

DocsDevFilterIpEntry ::= SEQUENCE {
            docsDevFilterIpIndex            Integer32,
            docsDevFilterIpStatus           RowStatus,
            docsDevFilterIpControl          INTEGER,



            docsDevFilterIpIfIndex          InterfaceIndexOrZero,

        docsDevFilterIpDirection        INTEGER,
            docsDevFilterIpBroadcast        TruthValue,
            docsDevFilterIpSaddr            IpAddress,
            docsDevFilterIpSmask            IpAddress,
            docsDevFilterIpDaddr            IpAddress,
            docsDevFilterIpDmask            IpAddress,
            docsDevFilterIpProtocol         Integer32,
            docsDevFilterIpSourcePortLow    Integer32,
            docsDevFilterIpSourcePortHigh   Integer32,
            docsDevFilterIpDestPortLow      Integer32,
            docsDevFilterIpDestPortHigh     Integer32,
            docsDevFilterIpMatches          ZeroBasedCounter32,
            docsDevFilterIpTos              OCTET STRING,
            docsDevFilterIpTosMask          OCTET STRING,
            docsDevFilterIpContinue         TruthValue,
            docsDevFilterIpPolicyId         Integer32
        }

docsDevFilterIpIndex OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)

    MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "Index used to order the application of filters.
            The filter with the lowest index is always applied
            first."
        ::= { docsDevFilterIpEntry 1 }
```

```
docsDevFilterIpStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "Controls and reflects the status of rows in this
        table.  Specifying only this object (with the
        appropriate index) on a CM is sufficient to create a
        filter row that matches all inbound packets on the
        ethernet interface and results in the packets being
        discarded.  docsDevFilterIpIfIndex (at least) must be
        specified on a CMTS to create a row.  Creation of the
        rows may be done via either create-and-wait or
        create-and-go, but the filter is not applied until this

   object is set to (or changes to) active.  There is no
        restriction in changing any object in a row while this
        object is set to active."
    ::= { docsDevFilterIpEntry 2 }



docsDevFilterIpControl OBJECT-TYPE
    SYNTAX INTEGER {
       discard(1),
       accept(2),
       policy(3)
    }
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "If set to discard(1), all packets matching this filter
        will be discarded, and scanning of the remainder of the
        filter list will be aborted.  If set to accept(2), all
        packets matching this filter will be accepted for
        further processing (e.g., bridging).  If
        docsDevFilterIpContinue is set to true, see if there
        are other matches; otherwise, done.  If set to
        policy (3), execute the policy entries
        matched by docsDevFilterIpPolicyId in
        docsDevFilterPolicyTable.

         If docsDevFilterIpContinue is set to true, continue
        scanning the table for other matches; otherwise, done."
    DEFVAL { discard }
    ::= { docsDevFilterIpEntry 3 }
```

```
docsDevFilterIpIfIndex OBJECT-TYPE
    SYNTAX      InterfaceIndexOrZero
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "The entry interface to which this filter applies.  The
        value corresponds to ifIndex for either a CATV MAC or
        another interface.  If the value is zero, the
        filter applies to all interfaces.  Default value in CMs
        is the index of the customer-side (e.g., ethernet)
        interface(s).  In CMTSes, this object MUST be
        specified to create a row in this table.

        Note that according to the DOCSIS OSSIv1.1
        specification, ifIndex '1' in the Cable Modem means
        that this row applies to all CMCI (customer-facing)
         interfaces."
    REFERENCE
       "DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and
        DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."
    ::= { docsDevFilterIpEntry 4 }

docsDevFilterIpDirection OBJECT-TYPE



    SYNTAX INTEGER {
       inbound(1),
       outbound(2),
       both(3)
    }
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "Determines whether the filter is applied to inbound(1)
        traffic, outbound(2) traffic, or traffic in both(3)
        directions."
    DEFVAL { inbound }
    ::= { docsDevFilterIpEntry 5 }

docsDevFilterIpBroadcast OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "If set to true(1), the filter only applies to multicast
        and broadcast traffic.  If set to false(2), the filter
```

```
            applies to all traffic."

        DEFVAL { false }
        ::= { docsDevFilterIpEntry 6 }

docsDevFilterIpSaddr OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "The source IP address, or portion thereof, that is to be
             matched for this filter.  The source address is first
             masked (ANDed) against docsDevFilterIpSmask before
             being compared to this value.  A value of 0 for this
             object and 0 for the mask matches all IP addresses."
        DEFVAL { '00000000'h }
        ::= { docsDevFilterIpEntry 7 }

docsDevFilterIpSmask OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "A bit mask that is to be applied to the source address
             prior to matching.  This mask is not necessarily the
             same as a subnet mask, but 1s bits must be leftmost and
             contiguous."
        DEFVAL
 { '00000000'h }



        ::= { docsDevFilterIpEntry 8 }

docsDevFilterIpDaddr OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "The destination IP address, or portion thereof, that is
             to be matched for this filter.  The destination address
             is first masked (ANDed) against docsDevFilterIpDmask
             before being compared to this value.  A value of
             00000000 for this object and 00000000 for the mask
             matches all IP addresses."
        DEFVAL { '00000000'h }
        ::= { docsDevFilterIpEntry 9 }
```

```
docsDevFilterIpDmask OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "A bit mask that is to be applied to the destination
        address prior to matching.  This mask is not necessarily
        the same as a subnet mask, but 1s bits MUST be leftmost

        and contiguous."
    DEFVAL { '00000000'h }
    ::= { docsDevFilterIpEntry 10 }

docsDevFilterIpProtocol OBJECT-TYPE
    SYNTAX Integer32 (0..256)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "The IP protocol value that is to be matched.  For
        example, icmp is 1, tcp is 6, and udp is 17.  A value of
        256 matches ANY protocol."
    REFERENCE "www.iana.org/assignments/protocol-numbers"
    DEFVAL { 256 }
    ::= { docsDevFilterIpEntry 11 }

docsDevFilterIpSourcePortLow OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "This is the inclusive lower bound of the transport-layer
        source port range that is to be matched.  If the IP
        protocol of the packet is neither UDP nor TCP, this




        object is ignored during matching."
    REFERENCE "www.iana.org/assignments/port-numbers"
     DEFVAL { 0 }
    ::= { docsDevFilterIpEntry 12 }

docsDevFilterIpSourcePortHigh OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "This is the inclusive upper bound of the transport-layer
        source port range that is to be matched.  If the IP
```

```
            protocol of the packet is neither UDP nor TCP, this
            object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
        DEFVAL { 65535 }
        ::= { docsDevFilterIpEntry 13 }

    docsDevFilterIpDestPortLow OBJECT-TYPE
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This is the inclusive lower bound of the transport-layer
            destination port range that is to be matched.  If the IP
            protocol of the packet is neither UDP nor TCP, this

           object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
        DEFVAL { 0 }
        ::= { docsDevFilterIpEntry 14 }

    docsDevFilterIpDestPortHigh OBJECT-TYPE
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This is the inclusive upper bound of the transport-layer
            destination port range that is to be matched.  If the IP
            protocol of the packet is neither UDP nor TCP, this
            object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
        DEFVAL { 65535 }
        ::= { docsDevFilterIpEntry 15 }

    docsDevFilterIpMatches OBJECT-TYPE
        SYNTAX      ZeroBasedCounter32
        UNITS       "matches"
        MAX-ACCESS  read-only




        STATUS      deprecated
        DESCRIPTION
            "Counts the number of times this filter was matched.
            This object is initialized
     to 0 at boot, or at row
            creation, and is reset only upon reboot."
        ::= { docsDevFilterIpEntry 16 }
```

```
docsDevFilterIpTos  OBJECT-TYPE
      SYNTAX      OCTET STRING (SIZE (1))
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "This is the value to be matched to the packet's
          TOS (Type of Service) value (after the TOS value
          is ANDed with docsDevFilterIpTosMask).  A value for this
          object of 0 and a mask of 0 matches all TOS values."
      DEFVAL { '00'h }
      ::= { docsDevFilterIpEntry 17 }

docsDevFilterIpTosMask OBJECT-TYPE
      SYNTAX      OCTET STRING (SIZE (1))
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "The mask to be applied to the packet's TOS value before
          matching."
      DEFVAL { '00'h }
      ::= { docsDevFilterIpEntry 18 }

docsDevFilterIpContinue OBJECT-TYPE
      SYNTAX      TruthValue

 MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "If this value is set to true and docsDevFilterIpControl
          is anything but discard (1), continue scanning and
          applying policies.  See Section 3.3.3 for more
          details."
      DEFVAL { false }
      ::= { docsDevFilterIpEntry 19 }

docsDevFilterIpPolicyId OBJECT-TYPE
      SYNTAX      Integer32 (0..2147483647)
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "This object points to an entry in
          docsDevFilterPolicyTable.  If docsDevFilterIpControl



          is set to policy (3), execute all matching policies
          in docsDevFilterPolicyTable.  If no matching policy
          exists, treat as if docsDevFilterIpControl were set
```

```
            to accept (1).  If this object is set to the value of
            0, there is no matching policy, and
            docsDevFilterPolicyTable MUST NOT be consulted."
        DEFVAL { 0 }
        ::= { docsDevFilterIpEntry 20 }

--
-- Policy Mapping Table
--

docsDevFilterPolicyTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevFilterPolicyEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "A Table that maps between a policy group ID and a set
            of pointers to policies to be applied.  All rows with
            the same docsDevFilterPolicyId are part of the same
            group of policy pointers and are applied in the order
            in this table.  docsDevFilterPolicyTable exists to
            allow multiple policy actions (referenced by policy
            pointers) to be applied to any given classified packet.
            The policy actions are applied in index order.
            For example:

            Index   ID    Type    Action
             1      1     TOS     1
             9      5     TOS     1
             12     1     IPSEC   3


        This says that a packet that matches a filter with
            policy id 1 first has TOS policy 1 applied (which might
            set the TOS bits to enable a higher priority) and next
            has the IPSEC policy 3 applied (which may result in the
            packets being dumped into a secure VPN to a remote
            encryptor).

            Policy ID 0 is reserved for default actions and is
            applied only to packets that match no filters in
            docsDevFilterIpTable.

            Table entries MUST NOT persist across reboots for any
            device.

            This table is deprecated.  Instead, use the DiffServ MIB
```

```
            from RFC 3289."
        ::= { docsDevFilter 5 }

docsDevFilterPolicyEntry OBJECT-TYPE
        SYNTAX      DocsDevFilterPolicyEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "An entry in the docsDevFilterPolicyTable.  Entries are
            created by Network
 Management.  To create an entry,
            docsDevFilterPolicyId MUST be specified."
        INDEX { docsDevFilterPolicyIndex }
        ::= { docsDevFilterPolicyTable 1 }

DocsDevFilterPolicyEntry ::= SEQUENCE {
            docsDevFilterPolicyIndex   Integer32,
            docsDevFilterPolicyId      Integer32,
--          docsDevFilterPolicyType    INTEGER,
--          docsDevFilterPolicyAction  Integer32,
            docsDevFilterPolicyStatus  RowStatus,
            docsDevFilterPolicyPtr     RowPointer
        }

docsDevFilterPolicyIndex OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION "Index value for the table."
        ::= { docsDevFilterPolicyEntry 1 }

docsDevFilterPolicyId OBJECT-TYPE
        SYNTAX      Integer32 (0..2147483647)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "Policy ID for this entry.  If a policy ID can apply
 to
            multiple rows of this table, all relevant policies are
            executed.  Policy 0 (if populated) is applied to all
            packets that do not match any of the filters.  N.B. If
            docsDevFilterIpPolicyId is set to 0, it DOES NOT match
            policy 0 of this table."
        ::= { docsDevFilterPolicyEntry 2 }

-- The following two objects were removed and never used; however,
-- to preserve OID numbering, they are simply commented out to
```

```
-- to ensure that they are not used again.
-- docsDevFilterPolicyType ::= { docsDevFilterPolicyEntry 3 }
-- docsDevFilterPolicyAction ::= { docsDevFilterPolicyEntry 4 }



docsDevFilterPolicyStatus OBJECT-TYPE
      SYNTAX      RowStatus
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "Object used to create an entry in this table.  There is
          no restriction in changing any object in a row while
          this object is set to active.
          The
 following object MUST have a valid value before this
          object can be set to active:  docsDevFilterPolicyPtr."
      ::= { docsDevFilterPolicyEntry 5 }

docsDevFilterPolicyPtr OBJECT-TYPE
      SYNTAX      RowPointer
      MAX-ACCESS  read-create
      STATUS      deprecated
      DESCRIPTION
         "This object points to a row in an applicable filter
          policy table.  Currently, the only standard policy
          table is docsDevFilterTosTable.

          Per the textual convention, this object points to the
          first accessible object in the row; e.g., to point to a
          row in docsDevFilterTosTable with an index of 21, the
          value of this object would be the object identifier
          docsDevTosStatus.21.

          Vendors are recommended to adhere to the same convention
          when adding vendor-specific policy table extensions.

          If this pointer references an empty or non-existent

         row, then no policy action is taken.

          The default upon row creation is a null pointer that
          results in no policy action being taken."
      DEFVAL { zeroDotZero }
      ::= { docsDevFilterPolicyEntry 6 }

--
-- TOS Policy action table
```

```
--

docsDevFilterTosTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsDevFilterTosEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "Table used to describe Type of Service (TOS) bits




        processing.

        This table is an adjunct to the docsDevFilterIpTable
        and the docsDevFilterPolicy table.  Entries in the
        latter table can point to specific rows in this (and
        other) tables and cause specific actions to be taken.
        This table permits the manipulation of the value of the
        Type of Service bits in the IP header of the matched
        packet as follows:

        Set the tosBits
 of the packet to
          (tosBits & docsDevFilterTosAndMask) |
          docsDevFilterTosOrMask

        This construct allows you to do a clear and set of all
        the TOS bits in a flexible manner.

        Table entries MUST NOT persist across reboots for any
        device.

        This table is deprecated.  Instead, use the DiffServ MIB
        from RFC 3289."
    ::= { docsDevFilter 6 }

docsDevFilterTosEntry OBJECT-TYPE
    SYNTAX      DocsDevFilterTosEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "A TOS policy entry."
    INDEX { docsDevFilterTosIndex }
    ::= { docsDevFilterTosTable 1 }

DocsDevFilterTosEntry ::= SEQUENCE {
        docsDevFilterTosIndex   Integer32,
        docsDevFilterTosStatus  RowStatus,
```

```
        docsDevFilterTosAndMask OCTET STRING,
        docsDevFilterTosOrMask  OCTET STRING
    }

docsDevFilterTosIndex OBJECT-TYPE
     SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "The unique index for this row.  There are no ordering
         requirements for this table, and any valid index may be
         specified."



    ::= { docsDevFilterTosEntry 1 }

docsDevFilterTosStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The object used to create and delete entries in this
         table.  A row created by specifying just this object
         results in a row that specifies no change to the TOS
         bits.  A row may be created using either the
         create-and-go or create-and-wait paradigms.  There is
         no restriction on the ability to change values in this
         row while the row is active."
    ::= { docsDevFilterTosEntry 2 }

docsDevFilterTosAndMask OBJECT-TYPE
     SYNTAX      OCTET STRING (SIZE (1))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "This value is bitwise ANDed with the matched packet's
         TOS bits."
    DEFVAL { 'ff'h }
    ::= { docsDevFilterTosEntry 3 }

docsDevFilterTosOrMask OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "This value is bitwise ORed with the result from the
         AND procedure (tosBits & docsDevFilterTosAndMask).
```

```
            The result then replaces the packet's TOS bits."
        DEFVAL { '00'h }
        ::= { docsDevFilterTosEntry 4 }

--
-- CPE IP Management and anti-spoofing group.  Only implemented on
-- Cable Modems.
--

docsDevCpe OBJECT IDENTIFIER ::= { docsDevMIBObjects 7 }

docsDevCpeEnroll OBJECT-TYPE
        SYNTAX      INTEGER {
            none(1),
            any(2)




        }
        MAX-ACCESS  read-write

      STATUS      current
        DESCRIPTION
            "This object controls the population of
             docsDevFilterCpeTable.
             If set to none, the filters must be set manually
             by a network management action (either configuration
             or SNMP set).
             If set to any, the CM wiretaps the packets originating
             from the ethernet and enrolls up to docsDevCpeIpMax
             addresses as based on the source IPv4 or v6 addresses of
             those packets."
        DEFVAL { any }
        ::= { docsDevCpe 1 }

docsDevCpeIpMax OBJECT-TYPE
        SYNTAX      Integer32 (-1..2147483647)
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "This object controls the maximum number of CPEs allowed
             to be learned behind this device.  If set to zero, any
             number of CPEs may connect up to the maximum permitted
             for the device.
             If set to -1, no filtering
 is done on CPE source
             addresses, and no entries are made in the
             docsDevFilterCpeTable via learning.  If an attempt is
```

made to set this to a number greater than that
permitted for the device, it is set to that maximum."
DEFVAL { -1 }
::= { docsDevCpe 2 }

docsDevCpeTable OBJECT-TYPE
SYNTAX SEQUENCE OF DocsDevCpeEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"This table lists the IPv4 addresses seen (or permitted)
as source addresses in packets originating from the
customer interface on this device. In addition, this
table can be provisioned with the specific addresses
permitted for the CPEs via the normal row creation
mechanisms. Table entries MUST NOT persist across
reboots for any device.

N.B. Management action can add entries in this table
and
in docsDevCpeIpTable past the value of

docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the
ability of the CM to add learned addresses
automatically.

This table is deprecated and is replaced by
docsDevCpeInetTable."
::= { docsDevCpe 3 }

docsDevCpeEntry OBJECT-TYPE
SYNTAX DocsDevCpeEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"An entry in the docsDevFilterCpeTable. There is one
entry for each IPv4 CPE seen or provisioned. If
docsDevCpeIpMax is set to -1, this table is ignored;
otherwise, upon receipt of an IP packet from the
customer interface of the CM, the source IP address is
checked against this table. If the address is in the
table, packet processing continues. If the address is
not in the table but docsDevCpeEnroll is set to any

and the sum of the table sizes of docsDevCpeTable and
docsDevCpeInetTable is less than docsDevCpeIpMax, the

```
            address is added to the table, and packet processing
            continues.  Otherwise, the packet is dropped.

            The filtering actions specified by this table occur
            after any LLC filtering (docsDevFilterLLCTable), but
            prior to any IP filtering (docsDevFilterIpTable,
            docsDevNmAccessTable)."
        INDEX   { docsDevCpeIp }
        ::= {docsDevCpeTable 1 }

DocsDevCpeEntry ::= SEQUENCE {
            docsDevCpeIp      IpAddress,
            docsDevCpeSource  INTEGER,
            docsDevCpeStatus  RowStatus
        }

docsDevCpeIp OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "The IPv4 address to which this entry applies.

            N.B.  Attempts to set all zeros or all ones address
            values MUST
 be rejected."



        ::= { docsDevCpeEntry 1 }

docsDevCpeSource OBJECT-TYPE
        SYNTAX      INTEGER {
            other(1),
            manual(2),
            learned(3)
        }

        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "This object describes how this entry was created.  If
            the value is manual(2), this row was created by a
            network management action (either configuration or
            SNMP set).  If set to learned(3), then it was found via
            looking at the source IPv4 address of a received packet.
            The value other(1) is used for any entries that do not
            meet manual(2) or learned(3) criteria."
```

```
    ::= { docsDevCpeEntry 2 }

docsDevCpeStatus OBJECT-TYPE
    SYNTAX  RowStatus
    MAX-ACCESS  read-create
    STATUS  deprecated
    DESCRIPTION
       "Standard object to manipulate rows.  To create a row in
        this table, one only needs
 to specify this object.
        Management stations SHOULD use the create-and-go
        mechanism for creating rows in this table."
    ::= { docsDevCpeEntry 3 }

--
-- Internet CPE Management and anti spoofing group, for support of
-- non-IPv4 CPEs.
--

docsDevCpeInetTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsDevCpeInetEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
       "This table lists the IP addresses seen (or permitted) as
        source addresses in packets originating from the
        customer interface on this device.  In addition, this
        table can be provisioned with the specific addresses
        permitted for the CPEs via the normal row creation
        mechanisms.



        N.B.  Management action can add entries in this table
        and in docsDevCpeIpTable past the value of
        docsDevCpeIpMax.  docsDevCpeIpMax ONLY restricts the

 ability of the CM to add learned addresses
        automatically.

        Table entries MUST NOT persist across reboots for any
        device.

        This table exactly mirrors docsDevCpeTable and applies
        to IPv4 and IPv6 addresses."
    ::= { docsDevCpe 4 }

docsDevCpeInetEntry OBJECT-TYPE
```

```
      SYNTAX      DocsDevCpeInetEntry
      MAX-ACCESS  not-accessible
      STATUS      current
      DESCRIPTION
         "An entry in the docsDevFilterCpeInetTable.  There is one
          entry for each IP CPE seen or provisioned.  If
          docsDevCpeIpMax is set to -1, this table is ignored;
          otherwise, upon receipt of an IP packet from the
          customer interface of the CM, the source IP address is
          checked against this table.  If the address is in the
          table, packet processing continues.  If the address is
          not in the table but docsDevCpeEnroll is set to any and
          the
 sum of the table sizes for docsDevCpeTable and
          docsDevCpeInetTable is less than docsDevCpeIpMax, the
          address is added to the table, and packet processing
          continues.  Otherwise, the packet is dropped.

          The filtering actions specified by this table occur
          after any LLC filtering (docsDevFilterLLCTable), but
          prior to any IP filtering (docsDevFilterIpTable,
          docsDevNmAccessTable).

          When an agent (cable modem) restarts, then all
          dynamically created rows are lost."
      INDEX   { docsDevCpeInetType, docsDevCpeInetAddr }
      ::= { docsDevCpeInetTable 1 }

DocsDevCpeInetEntry ::= SEQUENCE {
         docsDevCpeInetType      InetAddressType,
         docsDevCpeInetAddr      InetAddress,
         docsDevCpeInetSource    INTEGER,
         docsDevCpeInetRowStatus RowStatus
      }




docsDevCpeInetType OBJECT-TYPE
      SYNTAX      InetAddressType
      MAX-ACCESS
  not-accessible
      STATUS      current
      DESCRIPTION
         "The type of internet address of docsDevCpeInetAddr."
       ::= { docsDevCpeInetEntry 1 }

docsDevCpeInetAddr OBJECT-TYPE
```

```
      SYNTAX      InetAddress
      MAX-ACCESS  not-accessible
      STATUS      current
      DESCRIPTION
         "The Internet address to which this entry applies.

          Implementors need to be aware that if the size of
          docsDevCpeInetAddr exceeds 114 octets OIDs of
          instances of columns in this row will have more
          than 128 sub-identifiers and cannot be accessed
          using SNMPv1, SNMPv2c, or SNMPv3.  Only unicast
          address are allowed for this object."
      ::= { docsDevCpeInetEntry 2 }

docsDevCpeInetSource OBJECT-TYPE
      SYNTAX      INTEGER {
         manual(2),
         learned(3)
      }
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "This object
 describes how this entry was created.  If
          the value is manual(2), this row was created by a
          network management action (either configuration or
          SNMP set).  If set to learned(3), then it was found
          via looking at the source IP address of a received
          packet."
      ::= { docsDevCpeInetEntry 3 }

docsDevCpeInetRowStatus OBJECT-TYPE
      SYNTAX  RowStatus
      MAX-ACCESS  read-create
      STATUS  current
      DESCRIPTION
         "Standard object to manipulate rows.  To create a row in
          this table, one only needs to specify this object.
          Management stations SHOULD use the create-and-go
          mechanism for creating rows in this table."



      ::= { docsDevCpeInetEntry 4 }


--
-- Placeholder for notifications/traps.
```

```
--

-- erroneous, DO NOT USE docsDevNotification
docsDevNotification OBJECT IDENTIFIER   ::= { docsDev 2 }
-- erroneous, DO NOT USE docsDevNotification

docsDevNotifications
 OBJECT IDENTIFIER   ::= { docsDev 0 }



--
-- RFC 2669 Conformance definitions
--

docsDevConformance  OBJECT IDENTIFIER   ::= { docsDev 3 }
docsDevGroups       OBJECT IDENTIFIER   ::= { docsDevConformance 1 }
docsDevCompliances  OBJECT IDENTIFIER   ::= { docsDevConformance 2 }

docsDevBasicCompliance MODULE-COMPLIANCE
      STATUS  deprecated
      DESCRIPTION
         "The RFC 2669 compliance statement for MCNS/DOCSIS
          Cable Modems and Cable Modem Termination Systems."

MODULE  -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup
      DESCRIPTION
         "Mandatory in Cable Modems, optional in Cable Modem
          Termination Systems."

GROUP docsDevEventGroup
      DESCRIPTION
         "Mandatory in Cable Modems, optional in Cable Modem
          Termination Systems."

GROUP docsDevFilterGroup
      DESCRIPTION
         "Mandatory in Cable Modems, optional in Cable Modem
          Termination Systems."

GROUP
 docsDevNmAccessGroup
```

```
        DESCRIPTION
            "This group is only implemented in devices that do not
             implement the SNMPv3 User Security Model.  It SHOULD NOT
             be implemented by devices that conform to SNMPv3.

             For devices that do not implement SNMPv3 or later, this
             group is Mandatory in Cable Modems and is optional
             in Cable Modem Termination Systems."

    GROUP docsDevServerGroup
        DESCRIPTION
            "This group is implemented only in Cable Modems, and is
             not implemented in Cable Modem Termination Systems."

    GROUP docsDevSoftwareGroup
        DESCRIPTION
            "This group is Mandatory in Cable Modems and optional in
             Cable Modem Termination Systems."

    GROUP docsDevCpeGroup
        DESCRIPTION
            "This group is Mandatory in Cable Modems, and is
             not implemented in Cable Modem Termination Systems."

    OBJECT docsDevSTPControl
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support noStFilterBpdu(2)."

    OBJECT docsDevNmAccessIp
        DESCRIPTION
            "It is compliant to recognize the IP address
             255.255.255.255 as referring to any NMS."

    OBJECT docsDevEvReporting
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support local(0).  An agent need not
             enforce that trap or syslog logging be accompanied
             by local(0) or localVolatile(3) logging."
        ::= { docsDevCompliances 1 }

    docsDevBaseGroup OBJECT-GROUP
        OBJECTS {
            docsDevRole,
            docsDevDateTime,
```

```
            docsDevResetNow,
            docsDevSerialNumber,
            docsDevSTPControl
        }
        STATUS      current
        DESCRIPTION
            "A collection of objects providing device status
    and
            control."
        ::= { docsDevGroups 1 }

    docsDevNmAccessGroup OBJECT-GROUP
        OBJECTS {
            docsDevNmAccessIp,
            docsDevNmAccessIpMask,
            docsDevNmAccessCommunity,
            docsDevNmAccessControl,
            docsDevNmAccessInterfaces,
            docsDevNmAccessStatus
        }
        STATUS      deprecated
        DESCRIPTION
            "A collection of objects for controlling access to SNMP
            objects on cable devices.

            This group has been deprecated because all the
            objects have been deprecated in favor of SNMPv3 and
            Coexistence MIBs."
        ::= { docsDevGroups 2 }

    docsDevSoftwareGroup OBJECT-GROUP
        OBJECTS {
            docsDevSwServer,
            docsDevSwFilename,
            docsDevSwAdminStatus,
            docsDevSwOperStatus,
            docsDevSwCurrentVers
        }
        STATUS      deprecated
        DESCRIPTION
            "A collection of objects
    for controlling software
            downloads.

            This group has been deprecated and replaced by
```

```
            docsDevSoftwareGroupV2.  Object docsDevSwServer
            has been replaced by docsDevSwServerAddressType
            and docsDevSwServerAddress, and
            docsDevSwServerTransportProtocol has been added to
            support TFTP and HTTP firmware downloads."



        ::= { docsDevGroups 3 }

docsDevServerGroup OBJECT-GROUP
        OBJECTS {
           docsDevServerBootState,
           docsDevServerDhcp,
           docsDevServerTime,
           docsDevServerTftp,
           docsDevServerConfigFile
        }
        STATUS      deprecated
        DESCRIPTION
           "A collection of objects providing status about server
            provisioning.

            This group has been deprecated and replaced by
            docsDevServerGroupV2.  The objects docsDevServerDhcp,
            docsDevServerTime, and docsDevServerTftp have

       been replaced by docsDevServerDhcpAddressType,
            docsDevServerDhcpAddress, docsDevServerTimeAddressType,
            docsDevServerTimeAddress,
            docsDevServerConfigTftpAddressType, and
            docsDevServerConfigTftpAddress."
        ::= { docsDevGroups 4 }

docsDevEventGroup OBJECT-GROUP
        OBJECTS {
           docsDevEvControl,
           docsDevEvSyslog,
           docsDevEvThrottleAdminStatus,
           docsDevEvThrottleInhibited,
           docsDevEvThrottleThreshold,
           docsDevEvThrottleInterval,
           docsDevEvReporting,
           docsDevEvFirstTime,
           docsDevEvLastTime,
           docsDevEvCounts,
           docsDevEvLevel,
           docsDevEvId,
```

```
        docsDevEvText
    }
    STATUS      deprecated
    DESCRIPTION
        "A collection of objects used to control and monitor
        events.

        This group has been deprecated and replaced by
        docsDevEventGroupV2.
 The object docsDevEvSyslog has



        been replaced by docsDevEvSyslogAddressType and
        docsDevEvSyslogAddress, and docsDevEvThrottleInhibited
        has been replaced by
        docsDevEvThrottleThresholdExceeded."
    ::= { docsDevGroups 5 }

docsDevFilterGroup OBJECT-GROUP
    OBJECTS {
        docsDevFilterLLCUnmatchedAction,
        docsDevFilterIpDefault,
        docsDevFilterLLCStatus,
        docsDevFilterLLCIfIndex,
        docsDevFilterLLCProtocolType,
        docsDevFilterLLCProtocol,
        docsDevFilterLLCMatches,
        docsDevFilterIpControl,
        docsDevFilterIpIfIndex,
        docsDevFilterIpStatus,
        docsDevFilterIpDirection,
        docsDevFilterIpBroadcast,
        docsDevFilterIpSaddr,
        docsDevFilterIpSmask,
        docsDevFilterIpDaddr,
        docsDevFilterIpDmask,
        docsDevFilterIpProtocol,
        docsDevFilterIpSourcePortLow,
        docsDevFilterIpSourcePortHigh,
        docsDevFilterIpDestPortLow,
        docsDevFilterIpDestPortHigh,
        docsDevFilterIpMatches,
        docsDevFilterIpTos,
        docsDevFilterIpTosMask,
        docsDevFilterIpContinue,
        docsDevFilterIpPolicyId,
        docsDevFilterPolicyId,
```

```
            docsDevFilterPolicyStatus,
            docsDevFilterPolicyPtr,
            docsDevFilterTosStatus,
            docsDevFilterTosAndMask,
            docsDevFilterTosOrMask
        }
        STATUS      deprecated
        DESCRIPTION
            "A collection of objects to specify filters at the link
             layer and IPv4 layer.

             This group has been deprecated and replaced by various
             groups from the DiffServ MIB."



        ::= { docsDevGroups 6 }

docsDevCpeGroup OBJECT-GROUP
        OBJECTS {
          docsDevCpeEnroll,
          docsDevCpeIpMax,
          docsDevCpeSource,
          docsDevCpeStatus
         }
        STATUS      deprecated
        DESCRIPTION
            "A collection of objects used to control the number
             and specific values of IPv4 addresses allowed for
             associated Customer Premises Equipment (CPE).

             This group has been deprecated and replaced by
             docsDevInetCpeGroup.  The object docsDevCpeSource has
             been replaced by docsDevCpeInetSource, and
             docsDevCpeStatus has been replaced by
             docsDevCpeInetRowStatus."
        ::= { docsDevGroups 7 }

--
-- RFC 4639 Conformance definitions
--

docsDevGroupsV2       OBJECT IDENTIFIER  ::= { docsDevConformance 3 }
docsDevCompliancesV2  OBJECT IDENTIFIER  ::= { docsDevConformance 4 }

docsDevCmCompliance MODULE-COMPLIANCE
       STATUS  current
       DESCRIPTION
```

```
            "The compliance statement for DOCSIS Cable Modems.

             This compliance statement applies to implementations
             of DOCSIS versions that are not
    IPv6 capable."

    MODULE DIFFSERV-MIB -- RFC 3289

    MANDATORY-GROUPS {
            diffServMIBDataPathGroup,
            diffServMIBClfrGroup,
            diffServMIBClfrElementGroup,
            diffServMIBMultiFieldClfrGroup,
            diffServMIBActionGroup,
            diffServMIBDscpMarkActGroup,
            diffServMIBCounterGroup,
            diffServMIBAlgDropGroup




            }

    OBJECT diffServDataPathStatus  -- same as RFC 3289
           SYNTAX RowStatus { active(1) }
           WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
           DESCRIPTION
              "Support for createAndWait and notInService is not
               required."

    OBJECT diffServClfrStatus  -- same as RFC 3289
           SYNTAX RowStatus { active(1) }
           WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
           DESCRIPTION
              "Support for createAndWait and notInService is not
               required."

    OBJECT diffServClfrElementStatus  -- same as RFC 3289
           SYNTAX RowStatus { active(1)
    }
           WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
           DESCRIPTION
              "Support for createAndWait and notInService is not
               required."

    OBJECT diffServMultiFieldClfrAddrType
           SYNTAX  InetAddressType { ipv4(1) }
           DESCRIPTION
              "An implementation is only required to support IPv4
```

addresses."

OBJECT diffServMultiFieldClfrSrcAddr
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT diffServMultiFieldClfrDstAddr
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT diffServAlgDropStatus -- same as RFC 3289
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
"Support for createAndWait and notInService is not

required."

OBJECT diffServDataPathStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServClfrElementStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

OBJECT diffServMultiFieldClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support
volatile storage."

```
OBJECT diffServActionStorage
        SYNTAX StorageType { volatile(2) }
        DESCRIPTION
           "An implementation is only required to support
            volatile storage."

OBJECT diffServCountActStorage
         SYNTAX StorageType { volatile(2) }
        DESCRIPTION
           "An implementation is only required to support
            volatile storage."

OBJECT diffServAlgDropStorage
        SYNTAX StorageType { volatile(2) }
        DESCRIPTION
           "An implementation is only required to support
            volatile storage."

OBJECT diffServAlgDropType
        SYNTAX  INTEGER { alwaysDrop(5) }
        DESCRIPTION
           "This object is only used to provide packet
            filtering.  Implementations need not support other
            values of this enumeration."



MODULE  -- docsDev

MANDATORY-GROUPS {
          docsDevBaseGroup,
          docsDevBaseIgmpGroup,
          docsDevBaseMaxCpeGroup,
          docsDevSoftwareGroupV2,
          docsDevServerGroupV2,
          docsDevEventGroupV2,
          docsDevFilterLLCGroup
          }

-- conditionally mandatory groups

GROUP docsDevInetCpeGroup
       DESCRIPTION
          "This group is
 optional in Cable Modems."

OBJECT docsDevDateTime
```

```
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only."

    OBJECT docsDevSTPControl
        SYNTAX INTEGER { noStFilterBpdu(2) }
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support noStFilterBpdu(2)."

    OBJECT docsDevIgmpModeControl
        SYNTAX INTEGER { passive(1) }
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support passive(1)."

    OBJECT docsDevSwServerAddressType
        SYNTAX InetAddressType { ipv4(1) }
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

    OBJECT docsDevSwServerAddress
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required to
     support IPv4
             addresses."



    OBJECT docsDevServerDhcpAddressType
        SYNTAX InetAddressType { ipv4(1) }
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

    OBJECT docsDevServerDhcpAddress
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

    OBJECT docsDevServerTimeAddressType
        SYNTAX InetAddressType { ipv4(1) }
        DESCRIPTION
```

"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerTimeAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevServerConfigTftpAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT
docsDevServerConfigTftpAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvReporting
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only. Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevEvSyslogAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4 addresses."

OBJECT docsDevSwServerTransportProtocol
SYNTAX INTEGER { tftp(1) }
DESCRIPTION
"An implementation is only required to support TFTP software image downloads."

```
      ::= { docsDevCompliancesV2
 1 }

docsDevCmtsCompliance MODULE-COMPLIANCE
       STATUS  current
       DESCRIPTION
          "The compliance statement for DOCSIS Cable Modem
           Termination Systems.

           This compliance statement applies to implementations
           of DOCSIS versions that are not IPv6 capable."

MODULE  -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup
      DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevBaseIgmpGroup
      DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems."

GROUP docsDevSoftwareGroupV2
      DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems."



GROUP docsDevEventGroupV2
       DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
```

Termination Systems. See the Subscriber Management
MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup
DESCRIPTION
"This group MUST NOT be implemented in Cable Modem
Termination Systems. See the Subscriber Management
MIB for similar CMTS capability."

OBJECT docsDevDateTime
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl
SYNTAX INTEGER { noStFilterBpdu(2) }
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only.
Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl
SYNTAX INTEGER { passive(1)
}
MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only.
Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevSwServerAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevEvReporting

MIN-ACCESS read-only
DESCRIPTION
"It is compliant to implement this object as read-only.

```
            Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType
        SYNTAX InetAddressType { ipv4(1) }
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

OBJECT docsDevEvSyslogAddress
        SYNTAX  InetAddress
 (SIZE(4))
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

OBJECT docsDevSwServerTransportProtocol
        SYNTAX INTEGER { tftp(1) }
        DESCRIPTION
            "An implementation is only required to support TFTP
             software image downloads."

        ::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP
      OBJECTS {
          docsDevIgmpModeControl
      }
      STATUS      current
      DESCRIPTION
          "An object providing cable device IGMP status and
           control."
      ::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP
      OBJECTS {
          docsDevMaxCpe
      }
      STATUS      current
      DESCRIPTION
          "An object providing management of the maximum number of
           CPEs permitted access through a cable modem."
      ::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP
      OBJECTS {

          docsDevNmAccessTrapVersion
```

```
    }
    STATUS      deprecated
    DESCRIPTION
       "An object, in addition to the objects in
        docsDevNmAccessGroup, for controlling access to
        SNMP objects on cable devices.

        This group is included in this MIB due to existing
        implementations of docsDevNmAccessTrapVersion in
        DOCSIS cable modems.

        This group has been deprecated because the object has
        been deprecated in favor of SNMPv3 and Coexistence
        MIBs."
    ::= { docsDevGroupsV2 3 }

docsDevSoftwareGroupV2 OBJECT-GROUP
    OBJECTS {
       docsDevSwFilename,
       docsDevSwAdminStatus,
       docsDevSwOperStatus,
       docsDevSwCurrentVers,
       docsDevSwServerAddressType,
       docsDevSwServerAddress,
       docsDevSwServerTransportProtocol
    }
    STATUS      current
    DESCRIPTION
       "A collection of
 objects for controlling software
        downloads.  This group replaces docsDevSoftwareGroup."
    ::= { docsDevGroupsV2 4 }

docsDevServerGroupV2 OBJECT-GROUP
    OBJECTS {
       docsDevServerBootState,
       docsDevServerDhcpAddressType,
       docsDevServerDhcpAddress,
       docsDevServerTimeAddressType,
       docsDevServerTimeAddress,
       docsDevServerConfigTftpAddressType,
       docsDevServerConfigTftpAddress,
       docsDevServerConfigFile
    }
    STATUS      current
    DESCRIPTION
```

```
        "A collection of objects providing status about server
         provisioning.  This group replaces docsDevServerGroup."
      ::= { docsDevGroupsV2 5 }



docsDevEventGroupV2 OBJECT-GROUP
      OBJECTS {
         docsDevEvControl,
         docsDevEvThrottleAdminStatus,
         docsDevEvThrottleThreshold,
         docsDevEvThrottleInterval,
         docsDevEvReporting,
         docsDevEvFirstTime,
          docsDevEvLastTime,
         docsDevEvCounts,
         docsDevEvLevel,
         docsDevEvId,
         docsDevEvText,
         docsDevEvSyslogAddressType,
         docsDevEvSyslogAddress,
         docsDevEvThrottleThresholdExceeded
      }
      STATUS      current
      DESCRIPTION
         "A collection of objects used to control and monitor
         events.  This group replaces docsDevEventGroup.
         The event reporting mechanism, and more specifically
         docsDevEvReporting, can be used to take advantage of
         the event reporting features of RFC3413 and RFC3014."
      ::= { docsDevGroupsV2 6 }

docsDevFilterLLCGroup OBJECT-GROUP
      OBJECTS {
         docsDevFilterLLCUnmatchedAction,
         docsDevFilterLLCStatus,
         docsDevFilterLLCIfIndex,
         docsDevFilterLLCProtocolType,
         docsDevFilterLLCProtocol,
         docsDevFilterLLCMatches
      }
      STATUS
     current
      DESCRIPTION
         "A collection of objects to specify link layer filters."
      ::= { docsDevGroupsV2 7 }

docsDevInetCpeGroup OBJECT-GROUP
```

```
    OBJECTS {
      docsDevCpeEnroll,
      docsDevCpeIpMax,
      docsDevCpeInetSource,
      docsDevCpeInetRowStatus
    }
    STATUS     current



    DESCRIPTION
       "A collection of objects used to control the number
        and specific values of Internet (e.g., IPv4 and IPv6)
        addresses allowed for associated Customer Premises
        Equipment (CPE)."
    ::= { docsDevGroupsV2 8 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB
No license file was found, but licenses were detected in source scan.

```
DIFFSERV-MIB DEFINITIONS ::= BEGIN

  IMPORTS
  Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,
  OBJECT-IDENTITY, zeroDotZero, mib-2
      FROM SNMPv2-SMI
  TEXTUAL-CONVENTION, RowStatus, RowPointer,
  StorageType, AutonomousType
      FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP
      FROM SNMPv2-CONF
  ifIndex, InterfaceIndexOrZero
     FROM IF-MIB
  InetAddressType, InetAddress, InetAddressPrefixLength,
  InetPortNumber
     FROM INET-ADDRESS-MIB
  BurstSize
     FROM INTEGRATED-SERVICES-MIB
  Dscp, DscpOrAny
     FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY
  LAST-UPDATED "200202070000Z"
  ORGANIZATION "IETF Differentiated Services WG"
  CONTACT-INFO
```

```
      "       Fred Baker
              Cisco Systems
              1121 Via Del Rey
              Santa Barbara, CA 93117, USA
              E-mail: fred@cisco.com

              Kwok Ho Chan

             Nortel Networks
              600 Technology Park Drive
              Billerica, MA 01821, USA
              E-mail: khchan@nortelnetworks.com

              Andrew Smith
              Harbour Networks
              Jiuling Building


              21 North Xisanhuan Ave.
              Beijing, 100089, PRC
              E-mail: ah_smith@acm.org

              Differentiated Services Working Group:
              diffserv@ietf.org"
    DESCRIPTION
      "This MIB defines the objects necessary to manage a device that
      uses the Differentiated Services Architecture described in RFC
      2475. The Conceptual Model of a Differentiated Services Router
      provides supporting information on how such a router is modeled."
    REVISION "200202070000Z"
    DESCRIPTION
      "Initial version, published as RFC 3289."
    ::= { mib-2 97 }

diffServMIBObjects     OBJECT IDENTIFIER ::= { diffServMib 1 }
diffServMIBConformance OBJECT IDENTIFIER ::= { diffServMib 2 }
diffServMIBAdmin
       OBJECT IDENTIFIER ::= { diffServMib 3 }

IndexInteger ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS   current
    DESCRIPTION
      "An integer which may be used as a table index."
    SYNTAX   Unsigned32 (1..4294967295)

IndexIntegerNextFree ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
```

```
  STATUS   current
  DESCRIPTION
    "An integer which may be used as a new Index in a table.

    The special value of 0 indicates that no more new entries can be
    created in the relevant table.

    When a MIB is used for configuration, an object with this SYNTAX
    always contains a legal value (if non-zero) for an index that is
    not currently used in the relevant table. The Command Generator
    (Network Management Application) reads this variable and uses the
    (non-zero) value read when creating a new row with an SNMP SET.
    When the SET is performed, the Command Responder (agent) must
    determine whether the value is indeed
 still unused; Two Network
    Management Applications may attempt to create a row
    (configuration entry) simultaneously and use the same value. If
    it is currently unused, the SET succeeds and the Command
    Responder (agent) changes the value of this object, according to
    an implementation-specific algorithm.  If the value is in use,



    however, the SET fails.  The Network Management Application must
    then re-read this variable to obtain a new usable value.

    An OBJECT-TYPE definition using this SYNTAX MUST specify the
    relevant table for which the object is providing this
    functionality."
  SYNTAX   Unsigned32 (0..4294967295)

IfDirection ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "IfDirection specifies a direction of data travel on an
    interface. 'inbound' traffic is operated on during reception from
    the interface, while 'outbound' traffic is operated on prior to
    transmission on
 the interface."
  SYNTAX  INTEGER {
          inbound(1),     -- ingress interface
          outbound(2)     -- egress interface
}

--
-- Data Path
--
```

```
diffServDataPath       OBJECT IDENTIFIER ::= { diffServMIBObjects 1 }

--
-- Data Path Table
--
-- The Data Path Table enumerates the Differentiated Services
-- Functional Data Paths within this device.  Each entry in this table
-- is indexed by ifIndex and ifDirection.  Each entry provides the
-- first Differentiated Services Functional Data Path Element to
-- process data flowing along specific data path.  This table should
-- have at most two entries for each interface capable of
-- Differentiated Services processing on this device: ingress and
-- egress.

-- Note that Differentiated Services Functional Data Path Elements
-- linked together using their individual next pointers and anchored by
-- an entry of the diffServDataPathTable constitute a functional data
-- path.
--

diffServDataPathTable OBJECT-TYPE
  SYNTAX
    SEQUENCE OF DiffServDataPathEntry
  MAX-ACCESS   not-accessible
  STATUS       current



  DESCRIPTION
    "The data path table contains RowPointers indicating the start of
    the functional data path for each interface and traffic direction
    in this device. These may merge, or be separated into parallel
    data paths."
  ::= { diffServDataPath 1 }

diffServDataPathEntry OBJECT-TYPE
  SYNTAX       DiffServDataPathEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the data path table indicates the start of a single
    Differentiated Services Functional Data Path in this device.

    These are associated with individual interfaces, logical or
    physical, and therefore are instantiated by ifIndex. Therefore,
    the interface index must have been assigned, according to the
    procedures applicable to that, before it can be meaningfully
    used. Generally, this means that the interface must
```

exist.

When diffServDataPathStorage is of type nonVolatile, however, this may reflect the configuration for an interface whose ifIndex has been assigned but for which the supporting implementation is not currently present."

INDEX { ifIndex, diffServDataPathIfDirection }

::= { diffServDataPathTable 1 }

```
DiffServDataPathEntry ::= SEQUENCE  {
  diffServDataPathIfDirection    IfDirection,
  diffServDataPathStart          RowPointer,
  diffServDataPathStorage        StorageType,
  diffServDataPathStatus         RowStatus
}

diffServDataPathIfDirection OBJECT-TYPE
  SYNTAX       IfDirection
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "IfDirection specifies whether the reception or transmission path
    for this interface is in view."
  ::= { diffServDataPathEntry 1 }

diffServDataPathStart OBJECT-TYPE
  SYNTAX       RowPointer
  MAX-ACCESS   read-create
  STATUS       current
```

DESCRIPTION

"This selects the first Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:

diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServAlgDropEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates that no Differentiated Services treatment is performed on traffic of this data path. A pointer with the value zeroDotZero normally terminates a functional data path.

Setting this to point to a target that does not exist results in

```
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    ::= { diffServDataPathEntry 2 }

diffServDataPathStorage OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
        "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServDataPathEntry 3 }

diffServDataPathStatus OBJECT-TYPE
    SYNTAX       RowStatus
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time."
    ::= { diffServDataPathEntry 4 }

--
-- Classifiers
--

diffServClassifier     OBJECT IDENTIFIER ::= { diffServMIBObjects 2 }

--




-- Classifier Table
--
-- The Classifier Table allows multiple classifier elements, of same or
-- different types, to be used together. A classifier must completely
-- classify all packets presented to it. This means that all traffic
-- presented to a classifier must match at least one classifier element
-- within the classifier, with the classifier element parameters
--
 specified by a filter.

-- If there is ambiguity between classifier elements of different
-- classifier, classifier linkage order indicates their precedence; the
-- first classifier in the link is applied to the traffic first.
```

```
-- Entries in the classifier element table serves as the anchor for
-- each classification pattern, defined in filter table entries.  Each
-- classifier element table entry also specifies the subsequent
-- downstream Differentiated Services Functional Data Path Element when
-- the classification pattern is satisfied. Each entry in the
-- classifier element table describes one branch of the fan-out
-- characteristic of a classifier indicated in the Informal
-- Differentiated Services Model section 4.1.  A classifier is composed
-- of one or more classifier elements.

diffServClfrNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServClfrId,
 or a
    zero to indicate that none exist."
  ::= { diffServClassifier 1 }

diffServClfrTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServClfrEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table enumerates all the diffserv classifier functional
    data path elements of this device.  The actual classification
    definitions are defined in diffServClfrElementTable entries
    belonging to each classifier.

    An entry in this table, pointed to by a RowPointer specifying an
    instance of diffServClfrStatus, is frequently used as the name
    for a set of classifier elements, which all use the index
    diffServClfrId. Per the semantics of the classifier element
    table, these entries constitute one or more unordered sets of
    tests which may be simultaneously applied to a message to



    classify it.

    The primary function of this table is to ensure that the value of
    diffServClfrId
 is unique before attempting to use it in creating
    a diffServClfrElementEntry. Therefore, the diffServClfrEntry must
    be created on the same SET as the diffServClfrElementEntry, or
    before the diffServClfrElementEntry is created."
```

```
  ::= { diffServClassifier 2 }

diffServClfrEntry OBJECT-TYPE
  SYNTAX      DiffServClfrEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the classifier table describes a single classifier.
    All classifier elements belonging to the same classifier use the
    classifier's diffServClfrId as part of their index."
  INDEX { diffServClfrId }
  ::= { diffServClfrTable 1 }

DiffServClfrEntry ::= SEQUENCE  {
  diffServClfrId             IndexInteger,
  diffServClfrStorage        StorageType,
  diffServClfrStatus         RowStatus
}

diffServClfrId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION

    "An index that enumerates the classifier entries.  Managers
    should obtain new values for row creation in this table by
    reading diffServClfrNextFree."
  ::= { diffServClfrEntry 1 }

diffServClfrStorage OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServClfrEntry 2 }

diffServClfrStatus OBJECT-TYPE



  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServClfrEntry 3 }

--
-- Classifier Element Table
--
diffServClfrElementNextFree OBJECT-TYPE
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServClfrElementId,
    or a zero to indicate that none exist."
  ::= { diffServClassifier 3 }

diffServClfrElementTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServClfrElementEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The classifier element table enumerates the relationship between
    classification patterns and subsequent downstream Differentiated
    Services Functional Data Path elements.
    diffServClfrElementSpecific points to a filter that specifies the
    classification parameters. A classifier may use filter tables of
    different types together.

    One example of a filter table defined in this MIB is
    diffServMultiFieldClfrTable, for
 IP Multi-Field Classifiers
    (MFCs). Such an entry might identify anything from a single
    micro-flow (an identifiable sub-session packet stream directed
    from one sending transport to the receiving transport or
    transports), or aggregates of those such as the traffic from a
    host, traffic for an application, or traffic between two hosts
    using an application and a given DSCP. The standard Behavior
    Aggregate used in the Differentiated Services Architecture is
    encoded as a degenerate case of such an aggregate - the traffic
    using a particular DSCP value.

    Filter tables for other filter types may be defined elsewhere."
```

```
  ::= { diffServClassifier 4 }

diffServClfrElementEntry OBJECT-TYPE
  SYNTAX      DiffServClfrElementEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the classifier element table describes a single
    element of the classifier."
  INDEX { diffServClfrId,
 diffServClfrElementId }
  ::= { diffServClfrElementTable 1 }

DiffServClfrElementEntry ::= SEQUENCE  {
  diffServClfrElementId         IndexInteger,
  diffServClfrElementPrecedence  Unsigned32,
  diffServClfrElementNext       RowPointer,
  diffServClfrElementSpecific    RowPointer,
  diffServClfrElementStorage     StorageType,
  diffServClfrElementStatus      RowStatus
}

diffServClfrElementId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that enumerates the Classifier Element entries.
    Managers obtain new values for row creation in this table by
    reading diffServClfrElementNextFree."
  ::= { diffServClfrElementEntry 1 }

diffServClfrElementPrecedence OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The relative order in which classifier elements are applied:
    higher numbers
 represent classifier element with higher
    precedence.  Classifier elements with the same order must be
    unambiguous i.e. they must define non-overlapping patterns, and
    are considered to be applied simultaneously to the traffic
    stream. Classifier elements with different order may overlap in
    their filters:  the classifier element with the highest order
    that matches is taken.
```

```
      On a given interface, there must be a complete classifier in
      place at all times in the ingress direction.  This means one or
      more filters must match any possible pattern. There is no such




      requirement in the egress direction."
    ::= { diffServClfrElementEntry 2 }

diffServClfrElementNext OBJECT-TYPE
    SYNTAX      RowPointer
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "This attribute provides one branch of the fan-out functionality
      of a classifier described in the Informal Differentiated Services

 Model section 4.1.

      This selects the next Differentiated Services Functional Data
      Path Element to handle traffic for this data path. This
      RowPointer should point to an instance of one of:
        diffServClfrEntry
        diffServMeterEntry
        diffServActionEntry
        diffServAlgDropEntry
        diffServQEntry

      A value of zeroDotZero in this attribute indicates no further
      Differentiated Services treatment is performed on traffic of this
      data path. The use of zeroDotZero is the normal usage for the
      last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."

    ::= { diffServClfrElementEntry 3 }

diffServClfrElementSpecific OBJECT-TYPE
    SYNTAX      RowPointer
     MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "A pointer to a valid entry in another table, filter table, that
      describes the applicable classification parameters, e.g. an entry
      in diffServMultiFieldClfrTable.
```

```
      The value zeroDotZero is interpreted to match anything not
      matched by another classifier element - only one such entry may
      exist for each classifier.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or




      becomes inactive by other means, the element is ignored."
    ::= { diffServClfrElementEntry 4 }

diffServClfrElementStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL
  { nonVolatile }
    ::= { diffServClfrElementEntry 5 }

diffServClfrElementStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServClfrElementEntry 6 }

--
-- IP Multi-field Classification Table
--
-- Classification based on six different fields in the IP header.
-- Functional Data Paths may share definitions by using the same entry.
--

diffServMultiFieldClfrNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
```

```
  DESCRIPTION
    "This object contains an unused value for
    diffServMultiFieldClfrId, or a zero to indicate that none exist."
  ::= {
 diffServClassifier 5 }

diffServMultiFieldClfrTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF DiffServMultiFieldClfrEntry
  MAX-ACCESS   not-accessible
  STATUS   current
  DESCRIPTION
    "A table of IP Multi-field Classifier filter entries that a




    system may use to identify IP traffic."
  ::= { diffServClassifier 6 }

diffServMultiFieldClfrEntry OBJECT-TYPE
  SYNTAX       DiffServMultiFieldClfrEntry
  MAX-ACCESS   not-accessible
  STATUS   current
  DESCRIPTION
    "An IP Multi-field Classifier entry describes a single filter."
  INDEX { diffServMultiFieldClfrId }
  ::= { diffServMultiFieldClfrTable 1 }

DiffServMultiFieldClfrEntry ::= SEQUENCE {
  diffServMultiFieldClfrId          IndexInteger,
  diffServMultiFieldClfrAddrType    InetAddressType,
  diffServMultiFieldClfrDstAddr     InetAddress,
  diffServMultiFieldClfrDstPrefixLength InetAddressPrefixLength,
  diffServMultiFieldClfrSrcAddr     InetAddress,
  diffServMultiFieldClfrSrcPrefixLength
 InetAddressPrefixLength,
  diffServMultiFieldClfrDscp        DscpOrAny,
  diffServMultiFieldClfrFlowId      Unsigned32,
  diffServMultiFieldClfrProtocol    Unsigned32,
  diffServMultiFieldClfrDstL4PortMin InetPortNumber,
  diffServMultiFieldClfrDstL4PortMax InetPortNumber,
  diffServMultiFieldClfrSrcL4PortMin InetPortNumber,
  diffServMultiFieldClfrSrcL4PortMax InetPortNumber,
  diffServMultiFieldClfrStorage     StorageType,
  diffServMultiFieldClfrStatus      RowStatus
}

diffServMultiFieldClfrId OBJECT-TYPE
  SYNTAX       IndexInteger
```

```
    MAX-ACCESS     not-accessible
    STATUS     current
    DESCRIPTION
      "An index that enumerates the MultiField Classifier filter
      entries.  Managers obtain new values for row creation in this
      table by reading diffServMultiFieldClfrNextFree."

    ::= { diffServMultiFieldClfrEntry 1 }

  diffServMultiFieldClfrAddrType OBJECT-TYPE
    SYNTAX         InetAddressType
    MAX-ACCESS     read-create

    STATUS         current
    DESCRIPTION
      "The type of IP address used by this classifier entry.  While
      other types of addresses are defined in the InetAddressType




      textual convention, and DNS names, a classifier can only look at
      packets on the wire. Therefore, this object is limited to IPv4
      and IPv6 addresses."
    ::= { diffServMultiFieldClfrEntry 2 }

  diffServMultiFieldClfrDstAddr OBJECT-TYPE
    SYNTAX         InetAddress
    MAX-ACCESS     read-create
    STATUS         current
    DESCRIPTION
      "The IP address to match against the packet's destination IP
      address. This may not be a DNS name, but may be an IPv4 or IPv6
      prefix.  diffServMultiFieldClfrDstPrefixLength indicates the
      number of bits that are relevant."
    ::= { diffServMultiFieldClfrEntry 3 }

  diffServMultiFieldClfrDstPrefixLength OBJECT-TYPE
    SYNTAX         InetAddressPrefixLength
    UNITS          "bits"
    MAX-ACCESS     read-create
    STATUS
   current
    DESCRIPTION
      "The length of the CIDR Prefix carried in
      diffServMultiFieldClfrDstAddr. In IPv4 addresses, a length of 0
      indicates a match of any address; a length of 32 indicates a
      match of a single host address, and a length between 0 and 32
      indicates the use of a CIDR Prefix. IPv6 is similar, except that
```

```
    prefix lengths range from 0..128."
  DEFVAL       { 0 }
  ::= { diffServMultiFieldClfrEntry 4 }

diffServMultiFieldClfrSrcAddr OBJECT-TYPE
  SYNTAX       InetAddress
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The IP address to match against the packet's source IP address.
    This may not be a DNS name, but may be an IPv4 or IPv6 prefix.
    diffServMultiFieldClfrSrcPrefixLength indicates the number of
    bits that are relevant."
  ::= { diffServMultiFieldClfrEntry 5 }

diffServMultiFieldClfrSrcPrefixLength OBJECT-TYPE
  SYNTAX       InetAddressPrefixLength
  UNITS
       "bits"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION



    "The length of the CIDR Prefix carried in
    diffServMultiFieldClfrSrcAddr. In IPv4 addresses, a length of 0
    indicates a match of any address; a length of 32 indicates a
    match of a single host address, and a length between 0 and 32
    indicates the use of a CIDR Prefix. IPv6 is similar, except that
    prefix lengths range from 0..128."
  DEFVAL       { 0 }
  ::= { diffServMultiFieldClfrEntry 6 }

diffServMultiFieldClfrDscp OBJECT-TYPE
  SYNTAX       DscpOrAny
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The value that the DSCP in the packet must have to match this
    entry. A value of -1 indicates that a specific DSCP value has not
    been defined and thus all DSCP values are considered a match."
  DEFVAL       { -1 }
  ::= { diffServMultiFieldClfrEntry 7 }

diffServMultiFieldClfrFlowId OBJECT-TYPE
```

```
  SYNTAX        Unsigned32 (0..1048575)
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The flow identifier in an IPv6 header."
  ::= { diffServMultiFieldClfrEntry 8 }

diffServMultiFieldClfrProtocol OBJECT-TYPE
  SYNTAX        Unsigned32 (0..255)
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The IP protocol to match against the IPv4 protocol number or the
    IPv6 Next- Header number in the packet. A value of 255 means
    match all.  Note the protocol number of 255 is reserved by IANA,
    and Next-Header number of 0 is used in IPv6."
  DEFVAL        { 255 }
  ::= { diffServMultiFieldClfrEntry 9 }

diffServMultiFieldClfrDstL4PortMin OBJECT-TYPE
  SYNTAX        InetPortNumber
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The minimum value that the layer-4 destination port number in
    the packet must have in order to match this classifier entry."
  DEFVAL
      { 0 }



  ::= { diffServMultiFieldClfrEntry 10 }

diffServMultiFieldClfrDstL4PortMax OBJECT-TYPE
  SYNTAX        InetPortNumber
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The maximum value that the layer-4 destination port number in
    the packet must have in order to match this classifier entry.
    This value must be equal to or greater than the value specified
    for this entry in diffServMultiFieldClfrDstL4PortMin."
  DEFVAL        { 65535 }
  ::= { diffServMultiFieldClfrEntry 11 }

diffServMultiFieldClfrSrcL4PortMin OBJECT-TYPE
  SYNTAX        InetPortNumber
  MAX-ACCESS    read-create
```

```
  STATUS        current
  DESCRIPTION
    "The minimum value that the layer-4 source port number in the
    packet must have in order to match this classifier entry."
  DEFVAL        { 0 }
  ::= { diffServMultiFieldClfrEntry 12 }

diffServMultiFieldClfrSrcL4PortMax OBJECT-TYPE
  SYNTAX        InetPortNumber
   MAX-ACCESS     read-create
  STATUS        current
  DESCRIPTION
    "The maximum value that the layer-4 source port number in the
    packet must have in order to match this classifier entry. This
    value must be equal to or greater than the value specified for
    this entry in diffServMultiFieldClfrSrcL4PortMin."
  DEFVAL        { 65535 }
  ::= { diffServMultiFieldClfrEntry 13 }

diffServMultiFieldClfrStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServMultiFieldClfrEntry 14 }

diffServMultiFieldClfrStatus OBJECT-TYPE



  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The status of this conceptual row. All writable objects
 in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServMultiFieldClfrEntry 15 }

--
-- Meters
```

```
--

diffServMeter         OBJECT IDENTIFIER ::= { diffServMIBObjects 3 }

--
-- This MIB supports a variety of Meters.  It includes a specific
-- definition for Token Bucket Meter, which are but one type of
-- specification. Other metering parameter sets can be defined in other
-- MIBs.

-- Multiple meter elements may be logically cascaded using their
-- diffServMeterSucceedNext and diffServMeterFailNext pointers if
-- required. One example of this might be for an AF PHB implementation
-- that uses multiple level conformance meters.

-- Cascading of individual meter elements in the MIB is intended to be
-- functionally equivalent to multiple level conformance determination
-- of a packet.
 The sequential nature of the representation is merely
-- a notational convenience for this MIB.

-- srTCM meters (RFC 2697) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket.  The second set specifies the Excess Burst Size
-- token-bucket.

-- trTCM meters (RFC 2698) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket.  The second set specifies the Peak Information Rate
-- and Peak Burst Size token-bucket.

-- tswTCM meters (RFC 2859) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Target Rate token-bucket.  The second set specifies




-- the Peak Target Rate token-bucket. diffServTBParamInterval in each
-- token bucket reflects the Average Interval.
--

diffServMeterNextFree
 OBJECT-TYPE
   SYNTAX       IndexIntegerNextFree
   MAX-ACCESS   read-only
   STATUS       current
```

```
  DESCRIPTION
    "This object contains an unused value for diffServMeterId, or a
    zero to indicate that none exist."
  ::= { diffServMeter 1 }

diffServMeterTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServMeterEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table enumerates specific meters that a system may use to
    police a stream of traffic. The traffic stream to be metered is
    determined by the Differentiated Services Functional Data Path
    Element(s) upstream of the meter i.e. by the object(s) that point
    to each entry in this table.  This may include all traffic on an
    interface.

    Specific meter details are to be found in table entry referenced
    by diffServMeterSpecific."
  ::= { diffServMeter 2 }

diffServMeterEntry OBJECT-TYPE
  SYNTAX       DiffServMeterEntry
   MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the meter table describes a single conformance level
    of a meter."
  INDEX { diffServMeterId }
  ::= { diffServMeterTable 1 }

DiffServMeterEntry ::= SEQUENCE  {
  diffServMeterId              IndexInteger,
  diffServMeterSucceedNext       RowPointer,
  diffServMeterFailNext          RowPointer,
  diffServMeterSpecific          RowPointer,
  diffServMeterStorage           StorageType,
  diffServMeterStatus            RowStatus
}




diffServMeterId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
```

```
      "An index that enumerates the Meter entries.  Managers obtain new
      values for row creation in this table by reading
      diffServMeterNextFree."
    ::= { diffServMeterEntry 1 }

diffServMeterSucceedNext OBJECT-TYPE
    SYNTAX       RowPointer
    MAX-ACCESS   read-create
    STATUS
     current
    DESCRIPTION
      "If the traffic does conform, this selects the next
      Differentiated Services Functional Data Path element to handle
      traffic for this data path. This RowPointer should point to an
      instance of one of:
        diffServClfrEntry
        diffServMeterEntry
        diffServActionEntry
        diffServAlgDropEntry
        diffServQEntry

      A value of zeroDotZero in this attribute indicates that no
      further Differentiated Services treatment is performed on traffic
      of this data path. The use of zeroDotZero is the normal usage for
      the last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServMeterEntry
   2 }

diffServMeterFailNext OBJECT-TYPE
    SYNTAX       RowPointer
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "If the traffic does not conform, this selects the next
      Differentiated Services Functional Data Path element to handle
      traffic for this data path. This RowPointer should point to an
      instance of one of:
        diffServClfrEntry
        diffServMeterEntry
```

```
        diffServActionEntry
        diffServAlgDropEntry
        diffServQEntry

      A value of zeroDotZero in this attribute indicates no further
      Differentiated Services treatment is performed on traffic of this
      data path. The use of zeroDotZero is the normal usage for the
      last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
       attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServMeterEntry 3 }

diffServMeterSpecific OBJECT-TYPE
    SYNTAX       RowPointer
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "This indicates the behavior of the meter by pointing to an entry
      containing detailed parameters. Note that entries in that
      specific table must be managed explicitly.

      For example, diffServMeterSpecific may point to an entry in
      diffServTBParamTable, which contains an instance of a single set
      of Token Bucket parameters.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the meter always succeeds."
    ::= { diffServMeterEntry 4 }

diffServMeterStorage OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "The
   storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServMeterEntry 5 }

diffServMeterStatus OBJECT-TYPE
    SYNTAX       RowStatus
```

```
    MAX-ACCESS   read-create



    STATUS       current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServMeterEntry 6 }

--
-- Token Bucket Parameter Table
--

diffServTBParam        OBJECT IDENTIFIER ::= { diffServMIBObjects 4 }

-- Each entry in the Token Bucket Parameter Table parameterize a single
-- token bucket.  Multiple token buckets can be used together to
-- parameterize multiple levels of conformance.

-- Note that
 an entry in the Token Bucket Parameter Table can be shared
-- by multiple diffServMeterTable entries.
--

diffServTBParamNextFree OBJECT-TYPE
    SYNTAX       IndexIntegerNextFree
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This object contains an unused value for diffServTBParamId, or a
      zero to indicate that none exist."
    ::= { diffServTBParam 1 }

diffServTBParamTable OBJECT-TYPE
    SYNTAX       SEQUENCE OF DiffServTBParamEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
      "This table enumerates a single set of token bucket meter
      parameters that a system may use to police a stream of traffic.
      Such meters are modeled here as having a single rate and a single
      burst size. Multiple entries are used when multiple rates/burst
      sizes are needed."
    ::= { diffServTBParam 2 }
```

```
diffServTBParamEntry OBJECT-TYPE
  SYNTAX       DiffServTBParamEntry
  MAX-ACCESS   not-accessible
  STATUS
     current



  DESCRIPTION
    "An entry that describes a single set of token bucket
    parameters."
  INDEX { diffServTBParamId }
  ::= { diffServTBParamTable 1 }

DiffServTBParamEntry ::= SEQUENCE  {
  diffServTBParamId             IndexInteger,
  diffServTBParamType           AutonomousType,
  diffServTBParamRate           Unsigned32,
  diffServTBParamBurstSize      BurstSize,
  diffServTBParamInterval       Unsigned32,
  diffServTBParamStorage        StorageType,
  diffServTBParamStatus         RowStatus
}

diffServTBParamId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Token Bucket Parameter entries.
    Managers obtain new values for row creation in this table by
    reading diffServTBParamNextFree."
  ::= { diffServTBParamEntry 1 }

diffServTBParamType OBJECT-TYPE
  SYNTAX       AutonomousType
  MAX-ACCESS   read-create

  STATUS       current
  DESCRIPTION
    "The Metering algorithm associated with the Token Bucket
    parameters.  zeroDotZero indicates this is unknown.

    Standard values for generic algorithms:
    diffServTBParamSimpleTokenBucket, diffServTBParamAvgRate,
    diffServTBParamSrTCMBlind, diffServTBParamSrTCMAware,
    diffServTBParamTrTCMBlind, diffServTBParamTrTCMAware, and
```

```
    diffServTBParamTswTCM are specified in this MIB as OBJECT-
    IDENTITYs; additional values may be further specified in other
    MIBs."
  ::= { diffServTBParamEntry 2 }

diffServTBParamRate OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  UNITS       "kilobits per second"
  MAX-ACCESS  read-create
  STATUS      current



  DESCRIPTION
    "The token-bucket rate, in kilobits per second (kbps). This
    attribute is used for:
    1. CIR in RFC 2697 for srTCM
    2. CIR and PIR in RFC 2698 for trTCM
    3. CTR and PTR in RFC 2859 for TSWTCM

    4. AverageRate in RFC 3290."
  ::= { diffServTBParamEntry 3 }

diffServTBParamBurstSize OBJECT-TYPE
  SYNTAX      BurstSize
  UNITS       "Bytes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The maximum number of bytes in a single transmission burst. This
    attribute is used for:
    1. CBS and EBS in RFC 2697 for srTCM
    2. CBS and PBS in RFC 2698 for trTCM
    3. Burst Size in RFC 3290."
  ::= { diffServTBParamEntry 4 }

diffServTBParamInterval OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  UNITS       "microseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The time interval used with the token bucket.  For:
    1. Average Rate Meter, the Informal Differentiated Services Model
      section 5.2.1, - Delta.
    2. Simple Token Bucket Meter, the Informal Differentiated
      Services Model section 5.1, - time interval t.
    3. RFC 2859 TSWTCM, - AVG_INTERVAL.
```

```
      4. RFC 2697 srTCM, RFC 2698 trTCM, - token bucket update time
        interval."
  ::= { diffServTBParamEntry 5 }

diffServTBParamStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServTBParamEntry 6 }



diffServTBParamStatus OBJECT-TYPE
  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServTBParamEntry 7 }

--
-- OIDs for diffServTBParamType
 definitions.
--

diffServTBMeters  OBJECT IDENTIFIER ::= { diffServMIBAdmin 1 }

diffServTBParamSimpleTokenBucket OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Two Parameter Token Bucket Meter as described in the Informal
    Differentiated Services Model section 5.2.3."
  ::= { diffServTBMeters 1 }

diffServTBParamAvgRate OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Average Rate Meter as described in the Informal Differentiated
    Services Model section 5.2.1."
```

```
  ::= { diffServTBMeters 2 }

diffServTBParamSrTCMBlind OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Single Rate Three Color Marker Metering as defined by RFC 2697,
    in the `Color Blind' mode as described by the RFC."
  REFERENCE
     "RFC 2697"
  ::= { diffServTBMeters 3 }

diffServTBParamSrTCMAware OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Single Rate Three Color Marker Metering as defined by RFC 2697,
    in the
 `Color Aware' mode as described by the RFC."
  REFERENCE
     "RFC 2697"



  ::= { diffServTBMeters 4 }

diffServTBParamTrTCMBlind OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Two Rate Three Color Marker Metering as defined by RFC 2698, in
    the `Color Blind' mode as described by the RFC."
  REFERENCE
     "RFC 2698"
  ::= { diffServTBMeters 5 }

diffServTBParamTrTCMAware OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Two Rate Three Color Marker Metering as defined by RFC 2698, in
    the `Color Aware' mode as described by the RFC."
  REFERENCE
     "RFC 2698"
  ::= { diffServTBMeters 6 }

diffServTBParamTswTCM OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Time Sliding Window Three Color Marker Metering as defined by
    RFC 2859."
  REFERENCE
```

```
      "RFC 2859"
  ::= { diffServTBMeters 7 }

--
-- Actions
--

diffServAction        OBJECT IDENTIFIER ::= { diffServMIBObjects 5 }

--
-- The Action
 Table allows enumeration of the different types of
-- actions to be applied to a traffic flow.
--

diffServActionNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServActionId, or a
    zero to indicate that none exist."
  ::= { diffServAction 1 }



diffServActionTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServActionEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The Action Table enumerates actions that can be performed to a
    stream of traffic. Multiple actions can be concatenated. For
    example, traffic exiting from a meter may be counted, marked, and
    potentially dropped before entering a queue.

    Specific actions are indicated by diffServActionSpecific which
    points to an entry of a specific action type parameterizing the
    action in detail."
  ::= { diffServAction
 2 }

diffServActionEntry OBJECT-TYPE
  SYNTAX       DiffServActionEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "Each entry in the action table allows description of one
```

```
      specific action to be applied to traffic."
    INDEX { diffServActionId }
    ::= { diffServActionTable 1 }

DiffServActionEntry ::= SEQUENCE  {
    diffServActionId              IndexInteger,
    diffServActionInterface       InterfaceIndexOrZero,
    diffServActionNext            RowPointer,
    diffServActionSpecific        RowPointer,
    diffServActionStorage         StorageType,
    diffServActionStatus          RowStatus
}

diffServActionId OBJECT-TYPE
    SYNTAX       IndexInteger
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
      "An index that enumerates the Action entries.  Managers obtain
      new values for row creation in this table by reading
      diffServActionNextFree."
    ::= { diffServActionEntry 1 }

diffServActionInterface
   OBJECT-TYPE
     SYNTAX       InterfaceIndexOrZero
     MAX-ACCESS    read-create
     STATUS       current



     DESCRIPTION
       "The interface index (value of ifIndex) that this action occurs
       on. This may be derived from the diffServDataPathStartEntry's
       index by extension through the various RowPointers. However, as
       this may be difficult for a network management station, it is
       placed here as well.  If this is indeterminate, the value is
       zero.

       This is of especial relevance when reporting the counters which
       may apply to traffic crossing an interface:
         diffServCountActOctets,
         diffServCountActPkts,
         diffServAlgDropOctets,
         diffServAlgDropPkts,
         diffServAlgRandomDropOctets, and
         diffServAlgRandomDropPkts.
```

```
      It is also especially relevant to the queue and scheduler which
      may be subsequently applied."
    ::= { diffServActionEntry 2 }

diffServActionNext
 OBJECT-TYPE
   SYNTAX       RowPointer
   MAX-ACCESS   read-create
   STATUS       current
   DESCRIPTION
     "This selects the next Differentiated Services Functional Data
     Path Element to handle traffic for this data path. This
     RowPointer should point to an instance of one of:
       diffServClfrEntry
       diffServMeterEntry
       diffServActionEntry
       diffServAlgDropEntry
       diffServQEntry

     A value of zeroDotZero in this attribute indicates no further
     Differentiated Services treatment is performed on traffic of this
     data path. The use of zeroDotZero is the normal usage for the
     last functional data path element of the current data path.

     Setting this to point to a target that does not exist results in
     an inconsistentValue error.  If the row pointed to is removed or
     becomes inactive by other means, the treatment is as if this
     attribute contains a value of zeroDotZero."
   DEFVAL
     { zeroDotZero }
   ::= { diffServActionEntry 3 }

diffServActionSpecific OBJECT-TYPE



   SYNTAX       RowPointer
   MAX-ACCESS   read-create
   STATUS       current
   DESCRIPTION
     "A pointer to an object instance providing additional information
     for the type of action indicated by this action table entry.

     For the standard actions defined by this MIB module, this should
     point to either a diffServDscpMarkActEntry or a
     diffServCountActEntry. For other actions, it may point to an
     object instance defined in some other MIB.
```

```
      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the Meter should be treated as
      if it were not present.  This may lead to incorrect policy
      behavior."
    ::= { diffServActionEntry 4 }

diffServActionStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
     STATUS      current
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServActionEntry 5 }

diffServActionStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServActionEntry 6 }

-- DSCP Mark Action Table
--
-- Rows of this table are pointed to by diffServActionSpecific to
-- provide detailed parameters specific to the DSCP Mark action.
--
-- A single entry in this table can be shared by multiple




-- diffServActionTable entries.
--

diffServDscpMarkActTable
 OBJECT-TYPE
    SYNTAX      SEQUENCE OF DiffServDscpMarkActEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
```

```
      "This table enumerates specific DSCPs used for marking or
      remarking the DSCP field of IP packets. The entries of this table
      may be referenced by a diffServActionSpecific attribute."
    ::= { diffServAction 3 }

diffServDscpMarkActEntry OBJECT-TYPE
    SYNTAX       DiffServDscpMarkActEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
      "An entry in the DSCP mark action table that describes a single
      DSCP used for marking."
    INDEX { diffServDscpMarkActDscp }
    ::= { diffServDscpMarkActTable 1 }

DiffServDscpMarkActEntry ::= SEQUENCE  {
    diffServDscpMarkActDscp          Dscp
}

diffServDscpMarkActDscp OBJECT-TYPE
    SYNTAX       Dscp
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "The DSCP that this Action will store into
   the DSCP field of the
      subject. It is quite possible that the only packets subject to
      this Action are already marked with this DSCP. Note also that
      Differentiated Services processing may result in packet being
      marked on both ingress to a network and on egress from it, and
      that ingress and egress can occur in the same router."
    ::= { diffServDscpMarkActEntry 1 }

--
-- Count Action Table
--
-- Because the MIB structure allows multiple cascading
-- diffServActionEntry be used to describe multiple actions for a data
-- path, the counter became an optional action type.  In normal
-- implementation, either a data path has counters or it does not, as
-- opposed to being configurable. The management entity may choose to




-- read the counter or not.  Hence it is recommended for implementation
-- that have counters to always configure the count action as the first
-- of multiple actions.
--
```

```
diffServCountActNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
   MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for
    diffServCountActId, or a zero to indicate that none exist."
  ::= { diffServAction 4 }

diffServCountActTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServCountActEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table contains counters for all the traffic passing through
    an action element."
  ::= { diffServAction 5 }

diffServCountActEntry OBJECT-TYPE
  SYNTAX       DiffServCountActEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the count action table describes a single set of
    traffic counters."
  INDEX { diffServCountActId }
  ::= { diffServCountActTable 1 }

DiffServCountActEntry ::= SEQUENCE  {
  diffServCountActId          IndexInteger,
  diffServCountActOctets       Counter64,
  diffServCountActPkts         Counter64,

  diffServCountActStorage      StorageType,
  diffServCountActStatus       RowStatus
}

diffServCountActId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Count Action entries.  Managers
    obtain new values for row creation in this table by reading
```

```
    diffServCountActNextFree."
  ::= { diffServCountActEntry 1 }

diffServCountActOctets OBJECT-TYPE
  SYNTAX      Counter64
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The number of octets at the Action data path element.

    Discontinuities in the value of this counter can occur at re-
    initialization of the management system and at other times as
    indicated by the value of ifCounterDiscontinuityTime on the
    relevant interface."
  ::= { diffServCountActEntry 2 }

diffServCountActPkts OBJECT-TYPE
  SYNTAX      Counter64
  MAX-ACCESS  read-only
  STATUS
 current
  DESCRIPTION
    "The number of packets at the Action data path element.

    Discontinuities in the value of this counter can occur at re-
    initialization of the management system and at other times as
    indicated by the value of ifCounterDiscontinuityTime on the
    relevant interface."
  ::= { diffServCountActEntry 3 }

diffServCountActStorage OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServCountActEntry 4 }

diffServCountActStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
```

'destroy' when the MIB contains one or more RowPointers pointing

to it results in destruction being delayed until the row is no
longer used."
::= { diffServCountActEntry 5 }

--
-- Algorithmic Drop Table
--

diffServAlgDrop OBJECT IDENTIFIER ::= { diffServMIBObjects 6 }

diffServAlgDropNextFree OBJECT-TYPE
SYNTAX IndexIntegerNextFree
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object contains an unused value for diffServAlgDropId, or a
zero to indicate that none exist."
::= { diffServAlgDrop 1 }

diffServAlgDropTable OBJECT-TYPE
SYNTAX SEQUENCE OF DiffServAlgDropEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The algorithmic drop table contains entries describing an
element that drops packets according to some algorithm."
::= { diffServAlgDrop 2 }

diffServAlgDropEntry OBJECT-TYPE
SYNTAX DiffServAlgDropEntry
MAX-ACCESS
not-accessible
STATUS current
DESCRIPTION
"An entry describes a process that drops packets according to
some algorithm. Further details of the algorithm type are to be
found in diffServAlgDropType and with more detail parameter entry
pointed to by diffServAlgDropSpecific when necessary."
INDEX { diffServAlgDropId }
::= { diffServAlgDropTable 1 }

DiffServAlgDropEntry ::= SEQUENCE {
diffServAlgDropId IndexInteger,
diffServAlgDropType INTEGER,

```
  diffServAlgDropNext             RowPointer,
  diffServAlgDropQMeasure         RowPointer,
  diffServAlgDropQThreshold       Unsigned32,
  diffServAlgDropSpecific         RowPointer,
  diffServAlgDropOctets           Counter64,



  diffServAlgDropPkts             Counter64,
  diffServAlgRandomDropOctets     Counter64,
  diffServAlgRandomDropPkts       Counter64,
  diffServAlgDropStorage          StorageType,
  diffServAlgDropStatus
 RowStatus
}

diffServAlgDropId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Algorithmic Dropper entries.
    Managers obtain new values for row creation in this table by
    reading diffServAlgDropNextFree."
  ::= { diffServAlgDropEntry 1 }

diffServAlgDropType OBJECT-TYPE
  SYNTAX       INTEGER {
                 other(1),
                 tailDrop(2),
                 headDrop(3),
                 randomDrop(4),
                 alwaysDrop(5)
}
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The type of algorithm used by this dropper. The value other(1)
    requires further specification in some other MIB module.

    In the tailDrop(2) algorithm, diffServAlgDropQThreshold
    represents the maximum depth of the queue, pointed to by
    diffServAlgDropQMeasure, beyond which all newly arriving packets

 will be dropped.

    In the headDrop(3) algorithm, if a packet arrives when the
    current depth of the queue, pointed to by
```

diffServAlgDropQMeasure, is at diffServAlgDropQThreshold, packets currently at the head of the queue are dropped to make room for the new packet to be enqueued at the tail of the queue.

In the randomDrop(4) algorithm, on packet arrival, an Active Queue Management algorithm is executed which may randomly drop a packet. This algorithm may be proprietary, and it may drop either the arriving packet or another packet in the queue. diffServAlgDropSpecific points to a diffServRandomDropEntry that describes the algorithm. For this algorithm,

diffServAlgDropQThreshold is understood to be the absolute maximum size of the queue and additional parameters are described in diffServRandomDropTable.

The alwaysDrop(5) algorithm is as its name specifies; always drop. In
this case, the other configuration values in this Entry are not meaningful; There is no useful 'next' processing step, there is no queue, and parameters describing the queue are not useful. Therefore, diffServAlgDropNext, diffServAlgDropMeasure, and diffServAlgDropSpecific are all zeroDotZero."
::= { diffServAlgDropEntry 2 }

diffServAlgDropNext OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This selects the next Differentiated Services Functional Data Path Element to handle traffic for this data path. This RowPointer should point to an instance of one of:
diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

When diffServAlgDropType is alwaysDrop(5), this object is ignored.

Setting this to point to a target that does not exist results in

an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServAlgDropEntry 3 }

diffServAlgDropQMeasure OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Points to an entry in the diffServQTable to indicate the queue
that a drop algorithm is to monitor when deciding whether to drop
a packet. If the row pointed to does not exist, the algorithmic
dropper element is considered inactive.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes
inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServAlgDropEntry 4 }

diffServAlgDropQThreshold OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
UNITS "Bytes"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"A threshold on the depth in bytes of the queue being measured at
which a trigger is generated to the dropping algorithm, unless
diffServAlgDropType is alwaysDrop(5) where this object is
ignored.

For the tailDrop(2) or headDrop(3) algorithms, this represents
the depth of the queue, pointed to by diffServAlgDropQMeasure, at
which the drop action will take place. Other algorithms will need
to define their own semantics for this threshold."
::= { diffServAlgDropEntry 5 }

diffServAlgDropSpecific OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"Points to a table entry that provides further detail regarding a
drop algorithm.

Entries with diffServAlgDropType equal to other(1) may have this
point to a table defined in another MIB module.

Entries with diffServAlgDropType equal to randomDrop(4) must have
this point to an entry in diffServRandomDropTable.

For all other algorithms specified in this MIB, this should take
the value zeroDotZero.

The diffServAlgDropType is authoritative for the type of the drop
algorithm and the specific parameters for the drop algorithm
needs to be evaluated based on the diffServAlgDropType.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."

::= { diffServAlgDropEntry 6 }

diffServAlgDropOctets OBJECT-TYPE
SYNTAX
Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets that have been deterministically dropped by
this drop process.

Discontinuities in the value of this counter can occur at re-
initialization of the management system and at other times as
indicated by the value of ifCounterDiscontinuityTime on the
relevant interface."
::= { diffServAlgDropEntry 7 }

diffServAlgDropPkts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of packets that have been deterministically dropped
by this drop process.

Discontinuities in the value of this counter can occur at re-
initialization of the management system and at other times as
indicated by the value of ifCounterDiscontinuityTime on the
relevant interface."
::= { diffServAlgDropEntry 8 }

diffServAlgRandomDropOctets OBJECT-TYPE

SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets that have been randomly dropped by this
drop process. This counter applies, therefore, only to random
droppers.

Discontinuities in the value of this counter can occur at re-
initialization of the management system and at other times as
indicated by the value of ifCounterDiscontinuityTime on the
relevant interface."
::= { diffServAlgDropEntry 9 }

diffServAlgRandomDropPkts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only

STATUS current
DESCRIPTION
"The number of packets that have been randomly dropped by this
drop process. This counter applies, therefore, only to random
droppers.

Discontinuities in the value of this counter can occur at re-
initialization of the management system and at other times as
indicated by the value of ifCounterDiscontinuityTime
on the
relevant interface."
::= { diffServAlgDropEntry 10 }

diffServAlgDropStorage OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type for this conceptual row. Conceptual rows
having the value 'permanent' need not allow write-access to any

```
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServAlgDropEntry 11 }

diffServAlgDropStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServAlgDropEntry 12 }

--
-- Random Drop Table
--

diffServRandomDropNextFree OBJECT-TYPE
  SYNTAX
    IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServRandomDropId,
    or a zero to indicate that none exist."
  ::= { diffServAlgDrop 3 }



diffServRandomDropTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServRandomDropEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The random drop table contains entries describing a process that
    drops packets randomly. Entries in this table are pointed to by
    diffServAlgDropSpecific."
  ::= { diffServAlgDrop 4 }

diffServRandomDropEntry OBJECT-TYPE
  SYNTAX      DiffServRandomDropEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

```
    "An entry describes a process that drops packets according to a
    random algorithm."
  INDEX { diffServRandomDropId }
  ::= { diffServRandomDropTable 1 }

DiffServRandomDropEntry ::= SEQUENCE  {
  diffServRandomDropId
          IndexInteger,
  diffServRandomDropMinThreshBytes   Unsigned32,
  diffServRandomDropMinThreshPkts    Unsigned32,
  diffServRandomDropMaxThreshBytes   Unsigned32,
  diffServRandomDropMaxThreshPkts    Unsigned32,
  diffServRandomDropProbMax          Unsigned32,
  diffServRandomDropWeight           Unsigned32,
  diffServRandomDropSamplingRate     Unsigned32,
  diffServRandomDropStorage          StorageType,
  diffServRandomDropStatus           RowStatus
}

diffServRandomDropId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Random Drop entries.  Managers
    obtain new values for row creation in this table by reading
    diffServRandomDropNextFree."
  ::= { diffServRandomDropEntry 1 }

diffServRandomDropMinThreshBytes OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "bytes"
  MAX-ACCESS   read-create
  STATUS       current



   DESCRIPTION
    "The average queue depth in bytes, beyond which traffic has a
    non-zero probability of being dropped. Changes in this variable
    may or may not be reflected in the reported value of
    diffServRandomDropMinThreshPkts."
  ::= { diffServRandomDropEntry 2 }

diffServRandomDropMinThreshPkts OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "packets"
  MAX-ACCESS   read-create
```

```
  STATUS       current
  DESCRIPTION
    "The average queue depth in packets, beyond which traffic has a
    non-zero probability of being dropped. Changes in this variable
    may or may not be reflected in the reported value of
    diffServRandomDropMinThreshBytes."
  ::= { diffServRandomDropEntry 3 }

diffServRandomDropMaxThreshBytes OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "bytes"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The average queue depth beyond which
 traffic has a probability
    indicated by diffServRandomDropProbMax of being dropped or
    marked. Note that this differs from the physical queue limit,
    which is stored in diffServAlgDropQThreshold. Changes in this
    variable may or may not be reflected in the reported value of
    diffServRandomDropMaxThreshPkts."
  ::= { diffServRandomDropEntry 4 }

diffServRandomDropMaxThreshPkts OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "packets"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The average queue depth beyond which traffic has a probability
    indicated by diffServRandomDropProbMax of being dropped or
    marked. Note that this differs from the physical queue limit,
    which is stored in diffServAlgDropQThreshold. Changes in this
    variable may or may not be reflected in the reported value of
    diffServRandomDropMaxThreshBytes."
  ::= { diffServRandomDropEntry 5 }

diffServRandomDropProbMax
 OBJECT-TYPE



  SYNTAX       Unsigned32 (0..1000)
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The worst case random drop probability, expressed in drops per
    thousand packets.
```

```
      For example, if in the worst case every arriving packet may be
      dropped (100%) for a period, this has the value 1000.
      Alternatively, if in the worst case only one percent (1%) of
      traffic may be dropped, it has the value 10."
    ::= { diffServRandomDropEntry 6 }

diffServRandomDropWeight OBJECT-TYPE
    SYNTAX      Unsigned32 (0..65536)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The weighting of past history in affecting the Exponentially
      Weighted Moving Average function that calculates the current
      average queue depth.  The equation uses
      diffServRandomDropWeight/65536 as the coefficient for the new
      sample in the equation, and (65536 -
      diffServRandomDropWeight)/65536
   as the coefficient of the old
      value.

      Implementations may limit the values of diffServRandomDropWeight
      to a subset of the possible range of values, such as powers of
      two. Doing this would facilitate implementation of the
      Exponentially Weighted Moving Average using shift instructions or
      registers."
    ::= { diffServRandomDropEntry 7 }

diffServRandomDropSamplingRate OBJECT-TYPE
    SYNTAX      Unsigned32 (0..1000000)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The number of times per second the queue is sampled for queue
      average calculation.  A value of zero is used to mean that the
      queue is sampled approximately each time a packet is enqueued (or
      dequeued)."
    ::= { diffServRandomDropEntry 8 }

diffServRandomDropStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current



    DESCRIPTION
      "The storage type for this conceptual
```

```
 row.  Conceptual rows
     having the value 'permanent' need not allow write-access to any
     columnar objects in the row."
   DEFVAL { nonVolatile }
   ::= { diffServRandomDropEntry 9 }

diffServRandomDropStatus OBJECT-TYPE
   SYNTAX       RowStatus
   MAX-ACCESS   read-create
   STATUS       current
   DESCRIPTION
     "The status of this conceptual row. All writable objects in this
     row may be modified at any time. Setting this variable to
     'destroy' when the MIB contains one or more RowPointers pointing
     to it results in destruction being delayed until the row is no
     longer used."
   ::= { diffServRandomDropEntry 10 }

--
-- Queue Table
--

diffServQueue         OBJECT IDENTIFIER ::= { diffServMIBObjects 7 }

--
-- An entry of diffServQTable represents a FIFO queue Differentiated
-- Services Functional Data Path element as described in the Informal
-- Differentiated Services Model section 7.1.1. Note that the
-- specification of scheduling
 parameters for a queue as part of the
-- input to a scheduler functional data path element as described in
-- the Informal Differentiated Services Model section 7.1.2. This
-- allows building of hierarchical queuing/scheduling. A queue
-- therefore has these attributes:
--
-- 1. Which scheduler will service this queue, diffServQNext.
-- 2. How the scheduler will service this queue, with respect
--    to all the other queues the same scheduler needs to service,
--    diffServQMinRate.
--
-- Note that upstream Differentiated Services Functional Data Path
-- elements may point to a shared diffServQTable entry as described
-- in the Informal Differentiated Services Model section 7.1.1.
--

diffServQNextFree OBJECT-TYPE
   SYNTAX       IndexIntegerNextFree
   MAX-ACCESS   read-only
```

```
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServQId, or a zero
    to indicate that none exist."
  ::= { diffServQueue 1 }

diffServQTable OBJECT-TYPE
   SYNTAX       SEQUENCE OF DiffServQEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The Queue Table enumerates the individual queues.  Note that the
    MIB models queuing systems as composed of individual queues, one
    per class of traffic, even though they may in fact be structured
    as classes of traffic scheduled using a common calendar queue, or
    in other ways."
  ::= { diffServQueue 2 }

diffServQEntry OBJECT-TYPE
  SYNTAX       DiffServQEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the Queue Table describes a single queue or class of
    traffic."
  INDEX { diffServQId }
  ::= { diffServQTable 1 }

DiffServQEntry ::= SEQUENCE  {
  diffServQId                 IndexInteger,
  diffServQNext               RowPointer,
  diffServQMinRate            RowPointer,
  diffServQMaxRate            RowPointer,
  diffServQStorage
  StorageType,
  diffServQStatus             RowStatus
}

diffServQId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Queue entries.  Managers obtain new
    values for row creation in this table by reading
```

diffServQNextFree."
::= { diffServQEntry 1 }

diffServQNext OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This selects the next Differentiated Services Scheduler. The
RowPointer must point to a diffServSchedulerEntry.

A value of zeroDotZero in this attribute indicates an incomplete
diffServQEntry instance. In such a case, the entry has no
operational effect, since it has no parameters to give it
meaning.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServQEntry 2 }

diffServQMinRate OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This RowPointer indicates the diffServMinRateEntry that the
scheduler, pointed to by diffServQNext, should use to service
this queue.

If the row pointed to is zeroDotZero, the minimum rate and
priority is unspecified.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServQEntry 3 }

diffServQMaxRate OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current

```
    DESCRIPTION
        "This RowPointer indicates the diffServMaxRateEntry
   that the
        scheduler, pointed to by diffServQNext, should use to service
        this queue.

        If the row pointed to is zeroDotZero, the maximum rate is the
        line speed of the interface.




        Setting this to point to a target that does not exist results in
        an inconsistentValue error.  If the row pointed to is removed or
        becomes inactive by other means, the treatment is as if this
        attribute contains a value of zeroDotZero."
    ::= { diffServQEntry 4 }

diffServQStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this conceptual row.  Conceptual rows
        having the value 'permanent' need not allow write-access to any
        columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServQEntry 5 }

diffServQStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION

   "The status of this conceptual row. All writable objects in this
        row may be modified at any time. Setting this variable to
        'destroy' when the MIB contains one or more RowPointers pointing
        to it results in destruction being delayed until the row is no
        longer used."
    ::= { diffServQEntry 6 }

--
-- Scheduler Table
--

diffServScheduler      OBJECT IDENTIFIER ::= { diffServMIBObjects 8 }
```

```
--
-- A Scheduler Entry represents a packet scheduler, such as a priority
-- scheduler or a WFQ scheduler. It provides flexibility for multiple
-- scheduling algorithms, each servicing multiple queues, to be used on
-- the same logical/physical interface.
--
-- Note that upstream queues or schedulers specify several of the
-- scheduler's parameters. These must be properly specified if the
-- scheduler is to behave as expected.
--
-- The diffServSchedulerMaxRate attribute specifies the parameters when
-- a scheduler's output is sent to another scheduler. This is used in
-- building
 hierarchical queues or schedulers.




--
-- More discussion of the scheduler functional data path element is in
-- the Informal Differentiated Services Model section 7.1.2.
--

diffServSchedulerNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServSchedulerId, or
    a zero to indicate that none exist."
  ::= { diffServScheduler 1 }

diffServSchedulerTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServSchedulerEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The Scheduler Table enumerates packet schedulers. Multiple
    scheduling algorithms can be used on a given data path, with each
    algorithm described by one diffServSchedulerEntry."
  ::= { diffServScheduler 2 }

diffServSchedulerEntry OBJECT-TYPE
  SYNTAX       DiffServSchedulerEntry
  MAX-ACCESS   not-accessible
  STATUS       current
   DESCRIPTION
    "An entry in the Scheduler Table describing a single instance of
    a scheduling algorithm."
```

```
  INDEX { diffServSchedulerId }
  ::= { diffServSchedulerTable 1 }

DiffServSchedulerEntry ::= SEQUENCE  {
  diffServSchedulerId              IndexInteger,
  diffServSchedulerNext            RowPointer,
  diffServSchedulerMethod          AutonomousType,
  diffServSchedulerMinRate         RowPointer,
  diffServSchedulerMaxRate         RowPointer,
  diffServSchedulerStorage         StorageType,
  diffServSchedulerStatus          RowStatus
}

diffServSchedulerId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current



  DESCRIPTION
    "An index that enumerates the Scheduler entries.  Managers obtain
    new values for row creation in this table by reading
    diffServSchedulerNextFree."
  ::= { diffServSchedulerEntry 1 }

diffServSchedulerNext OBJECT-TYPE

  SYNTAX      RowPointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "This selects the next Differentiated Services Functional Data
    Path Element to handle traffic for this data path. This normally
    is null (zeroDotZero), or points to a diffServSchedulerEntry or a
    diffServQEntry.

    However, this RowPointer may also point to an instance of:
      diffServClfrEntry,
      diffServMeterEntry,
      diffServActionEntry,
      diffServAlgDropEntry.

    It would point another diffServSchedulerEntry when implementing
    multiple scheduler methods for the same data path, such as having
    one set of queues scheduled by WRR and that group participating
    in a priority scheduling system in which other queues compete
    with it in that way.  It might also point to a second scheduler
```

```
      in a hierarchical scheduling system.

      If the row pointed to is zeroDotZero, no further Differentiated
      Services
 treatment is performed on traffic of this data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServSchedulerEntry 2 }

diffServSchedulerMethod OBJECT-TYPE
    SYNTAX      AutonomousType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The scheduling algorithm used by this Scheduler. zeroDotZero
      indicates that this is unknown.  Standard values for generic
      algorithms: diffServSchedulerPriority, diffServSchedulerWRR, and
      diffServSchedulerWFQ are specified in this MIB; additional values




      may be further specified in other MIBs."
    ::= { diffServSchedulerEntry 3 }

diffServSchedulerMinRate OBJECT-TYPE
    SYNTAX      RowPointer
    MAX-ACCESS  read-create

    STATUS      current
    DESCRIPTION
      "This RowPointer indicates the entry in diffServMinRateTable
      which indicates the priority or minimum output rate from this
      scheduler. This attribute is used only when there is more than
      one level of scheduler.

      When it has the value zeroDotZero, it indicates that no minimum
      rate or priority is imposed.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServSchedulerEntry 4 }
```

```
diffServSchedulerMaxRate OBJECT-TYPE
  SYNTAX       RowPointer
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "This RowPointer indicates the entry in diffServMaxRateTable
    which indicates the maximum output rate from this scheduler.
    When
 more than one maximum rate applies (eg, when a multi-rate
    shaper is in view), it points to the first of those rate entries.
    This attribute is used only when there is more than one level of
    scheduler.

    When it has the value zeroDotZero, it indicates that no maximum
    rate is imposed.

    Setting this to point to a target that does not exist results in
    an inconsistentValue error.  If the row pointed to is removed or
    becomes inactive by other means, the treatment is as if this
    attribute contains a value of zeroDotZero."
  DEFVAL      { zeroDotZero }
  ::= { diffServSchedulerEntry 5 }

diffServSchedulerStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create



  STATUS       current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::=
 { diffServSchedulerEntry 6 }

diffServSchedulerStatus OBJECT-TYPE
  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
```

```
      longer used."
    ::= { diffServSchedulerEntry 7 }

--
-- OIDs for diffServTBParamType definitions.
--

diffServSchedulers  OBJECT IDENTIFIER ::= { diffServMIBAdmin 2 }

diffServSchedulerPriority OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "For use with diffServSchedulerMethod to indicate the Priority
      scheduling method.  This is defined as an algorithm in which the
      presence of data in a queue or set of queues absolutely precludes
      dequeue from another queue or set of queues of lower priority.
      Note
 that attributes from diffServMinRateEntry of the
      queues/schedulers feeding this scheduler are used when
      determining the next packet to schedule."
    ::= { diffServSchedulers 1 }

diffServSchedulerWRR OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "For use with diffServSchedulerMethod to indicate the Weighted
      Round Robin scheduling method, defined as any algorithm in which
      a set of queues are visited in a fixed order, and varying amounts
      of traffic are removed from each queue in turn to implement an
      average output rate by class. Notice attributes from
      diffServMinRateEntry of the queues/schedulers feeding this
      scheduler are used when determining the next packet to schedule."



    ::= { diffServSchedulers 2 }

diffServSchedulerWFQ OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "For use with diffServSchedulerMethod to indicate the Weighted
      Fair Queuing scheduling method, defined as any algorithm
 in which
      a set of queues are conceptually visited in some order, to
      implement an average output rate by class. Notice attributes from
      diffServMinRateEntry of the queues/schedulers feeding this
      scheduler are used when determining the next packet to schedule."
    ::= { diffServSchedulers 3 }
```

```
--
-- Minimum Rate Parameters Table
--
-- The parameters used by a scheduler for its inputs or outputs are
-- maintained separately from the Queue or Scheduler table entries for
-- reusability reasons and so that they may be used by both queues and
-- schedulers.  This follows the approach for separation of data path
-- elements from parameterization that is used throughout this MIB.
-- Use of these Minimum Rate Parameter Table entries by Queues and
-- Schedulers allows the modeling of hierarchical scheduling systems.
--
-- Specifically, a Scheduler has one or more inputs and one output.
-- Any queue feeding a scheduler, or any scheduler which feeds a second
-- scheduler,
 might specify a minimum transfer rate by pointing to an
-- Minimum Rate Parameter Table entry.
--
-- The diffServMinRatePriority/Abs/Rel attributes are used as
-- parameters to the work-conserving portion of a scheduler:
-- "work-conserving" implies that the scheduler can continue to emit
-- data as long as there is data available at its input(s).  This has
-- the effect of guaranteeing a certain priority relative to other
-- scheduler inputs and/or a certain minimum proportion of the
-- available output bandwidth. Properly configured, this means a
-- certain minimum rate, which may be exceeded should traffic be
-- available should there be spare bandwidth after all other classes
-- have had opportunities to consume their own minimum rates.
--

diffServMinRateNextFree OBJECT-TYPE
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServMinRateId, or a
    zero to indicate
 that none exist."



  ::= { diffServScheduler 3 }

diffServMinRateTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServMinRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

```
    "The Minimum Rate Parameters Table enumerates individual sets of
    scheduling parameter that can be used/reused by Queues and
    Schedulers."
  ::= { diffServScheduler 4 }

diffServMinRateEntry OBJECT-TYPE
  SYNTAX      DiffServMinRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the Minimum Rate Parameters Table describes a single
    set of scheduling parameters for use by one or more queues or
    schedulers."
  INDEX { diffServMinRateId }
  ::= { diffServMinRateTable 1 }

DiffServMinRateEntry ::= SEQUENCE  {
  diffServMinRateId            IndexInteger,
  diffServMinRatePriority      Unsigned32,
  diffServMinRateAbsolute      Unsigned32,
  diffServMinRateRelative      Unsigned32,
   diffServMinRateStorage      StorageType,
  diffServMinRateStatus        RowStatus
}

diffServMinRateId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that enumerates the Scheduler Parameter entries.
    Managers obtain new values for row creation in this table by
    reading diffServMinRateNextFree."
  ::= { diffServMinRateEntry 1 }

diffServMinRatePriority OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The priority of this input to the associated scheduler, relative



    to the scheduler's other inputs. A queue or scheduler with a
    larger numeric value will be served before another with a smaller
    numeric value."
  ::= { diffServMinRateEntry 2 }
```

```
diffServMinRateAbsolute OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  UNITS       "kilobits per second"
  MAX-ACCESS
  read-create
  STATUS      current
  DESCRIPTION
    "The minimum absolute rate, in kilobits/sec, that a downstream
    scheduler element should allocate to this queue. If the value is
    zero, then there is effectively no minimum rate guarantee. If the
    value is non-zero, the scheduler will assure the servicing of
    this queue to at least this rate.

    Note that this attribute value and that of
    diffServMinRateRelative are coupled: changes to one will affect
    the value of the other. They are linked by the following
    equation, in that setting one will change the other:

      diffServMinRateRelative =
           (diffServMinRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMinRateRelative = diffServMinRateAbsolute/ifHighSpeed"
  REFERENCE
     "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
  ::= { diffServMinRateEntry 3 }

diffServMinRateRelative OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
   MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The minimum rate that a downstream scheduler element should
    allocate to this queue, relative to the maximum rate of the
    interface as reported by ifSpeed or ifHighSpeed, in units of
    1/1000 of 1. If the value is zero, then there is effectively no
    minimum rate guarantee. If the value is non-zero, the scheduler
    will assure the servicing of this queue to at least this rate.

    Note that this attribute value and that of
    diffServMinRateAbsolute are coupled: changes to one will affect
    the value of the other. They are linked by the following
    equation, in that setting one will change the other:
```

```
        diffServMinRateRelative =
              (diffServMinRateAbsolute*1000000)/ifSpeed

      or, if appropriate:

        diffServMinRateRelative = diffServMinRateAbsolute/ifHighSpeed"
    REFERENCE
       "ifSpeed, ifHighSpeed, Interface MIB,
  RFC 2863"
    ::= { diffServMinRateEntry 4 }

diffServMinRateStorage OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       "The storage type for this conceptual row.  Conceptual rows
       having the value 'permanent' need not allow write-access to any
       columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServMinRateEntry 5 }

diffServMinRateStatus OBJECT-TYPE
    SYNTAX       RowStatus
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       "The status of this conceptual row. All writable objects in this
       row may be modified at any time. Setting this variable to
       'destroy' when the MIB contains one or more RowPointers pointing
       to it results in destruction being delayed until the row is no
       longer used."
    ::= { diffServMinRateEntry 6 }

--
-- Maximum Rate Parameter Table
--
-- The parameters used by a scheduler for its inputs or outputs are
-- maintained
 separately from the Queue or Scheduler table entries for
-- reusability reasons and so that they may be used by both queues and
-- schedulers.  This follows the approach for separation of data path
-- elements from parameterization that is used throughout this MIB.
-- Use of these Maximum Rate Parameter Table entries by Queues and
-- Schedulers allows the modeling of hierarchical scheduling systems.
--
-- Specifically, a Scheduler has one or more inputs and one output.
-- Any queue feeding a scheduler, or any scheduler which feeds a second
```

```
-- scheduler, might specify a maximum transfer rate by pointing to a
-- Maximum Rate Parameter Table entry. Multi-rate shapers, such as a




-- Dual Leaky Bucket algorithm, specify their rates using multiple
-- Maximum Rate Parameter Entries with the same diffServMaxRateId but
-- different diffServMaxRateLevels.
--
-- The diffServMaxRateLevel/Abs/Rel attributes are used as
-- parameters to the non-work-conserving portion of a scheduler:
-- non-work-conserving
 implies that the scheduler may sometimes not
-- emit a packet, even if there is data available at its input(s).
-- This has the effect of limiting the servicing of the queue/scheduler
-- input or output, in effect performing shaping of the packet stream
-- passing through the queue/scheduler, as described in the Informal
-- Differentiated Services Model section 7.2.
--

diffServMaxRateNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServMaxRateId, or a
    zero to indicate that none exist."
  ::= { diffServScheduler 5 }

diffServMaxRateTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServMaxRateEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The Maximum Rate Parameter Table enumerates individual sets of
    scheduling parameter that can be used/reused by Queues and
    Schedulers."
  ::=
 { diffServScheduler 6 }

diffServMaxRateEntry OBJECT-TYPE
  SYNTAX       DiffServMaxRateEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the Maximum Rate Parameter Table describes a single
    set of scheduling parameters for use by one or more queues or
    schedulers."
```

```
  INDEX { diffServMaxRateId, diffServMaxRateLevel }
  ::= { diffServMaxRateTable 1 }

DiffServMaxRateEntry ::= SEQUENCE  {
  diffServMaxRateId             IndexInteger,
  diffServMaxRateLevel          Unsigned32,
  diffServMaxRateAbsolute       Unsigned32,



  diffServMaxRateRelative       Unsigned32,
  diffServMaxRateThreshold      BurstSize,
  diffServMaxRateStorage        StorageType,
  diffServMaxRateStatus         RowStatus
}

diffServMaxRateId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that enumerates the Maximum Rate Parameter entries.

    Managers obtain new values for row creation in this table by
    reading diffServMaxRateNextFree."
  ::= { diffServMaxRateEntry 1 }

diffServMaxRateLevel OBJECT-TYPE
  SYNTAX      Unsigned32 (1..32)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that indicates which level of a multi-rate shaper is
    being given its parameters. A multi-rate shaper has some number
    of rate levels. Frame Relay's dual rate specification refers to a
    'committed' and an 'excess' rate; ATM's dual rate specification
    refers to a 'mean' and a 'peak' rate. This table is generalized
    to support an arbitrary number of rates. The committed or mean
    rate is level 1, the peak rate (if any) is the highest level rate
    configured, and if there are other rates they are distributed in
    monotonically increasing order between them."
  ::= { diffServMaxRateEntry 2 }

diffServMaxRateAbsolute OBJECT-TYPE
  SYNTAX      Unsigned32
 (1..4294967295)
  UNITS       "kilobits per second"
  MAX-ACCESS  read-create
```

```
    STATUS       current
    DESCRIPTION
      "The maximum rate in kilobits/sec that a downstream scheduler
      element should allocate to this queue. If the value is zero, then
      there is effectively no maximum rate limit and that the scheduler
      should attempt to be work conserving for this queue. If the value
      is non-zero, the scheduler will limit the servicing of this queue
      to, at most, this rate in a non-work-conserving manner.

      Note that this attribute value and that of
      diffServMaxRateRelative are coupled: changes to one will affect
      the value of the other. They are linked by the following




      equation, in that setting one will change the other:

        diffServMaxRateRelative =
              (diffServMaxRateAbsolute*1000000)/ifSpeed

      or, if appropriate:

        diffServMaxRateRelative = diffServMaxRateAbsolute/ifHighSpeed"
    REFERENCE
      "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
    ::= { diffServMaxRateEntry 3 }

  diffServMaxRateRelative OBJECT-TYPE
    SYNTAX       Unsigned32  (1..4294967295)
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "The maximum rate that a downstream scheduler element should
      allocate to this queue, relative to the maximum rate of the
      interface as reported by ifSpeed or ifHighSpeed, in units of
      1/1000 of 1. If the value is zero, then there is effectively no
      maximum rate limit and the scheduler should attempt to be work
      conserving for this queue. If the value is non-zero, the
      scheduler will limit the servicing of this queue to, at most,
      this rate in a non-work-conserving manner.

      Note that this attribute value and that of
      diffServMaxRateAbsolute are coupled: changes to one will affect
      the value of the other. They are linked by the following
      equation, in that setting
   one will change the other:

        diffServMaxRateRelative =
```

```
            (diffServMaxRateAbsolute*1000000)/ifSpeed

      or, if appropriate:

       diffServMaxRateRelative = diffServMaxRateAbsolute/ifHighSpeed"
    REFERENCE
      "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
    ::= { diffServMaxRateEntry 4 }

diffServMaxRateThreshold OBJECT-TYPE
    SYNTAX      BurstSize
    UNITS       "Bytes"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The number of bytes of queue depth at which the rate of a




      multi-rate scheduler will increase to the next output rate. In
      the last conceptual row for such a shaper, this threshold is
      ignored and by convention is zero."
    REFERENCE
      "Adaptive rate Shaper, RFC 2963"
    ::= { diffServMaxRateEntry 5 }

diffServMaxRateStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The storage type for this
   conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServMaxRateEntry 6 }

diffServMaxRateStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
```

```
  ::= { diffServMaxRateEntry 7 }

--
-- MIB Compliance statements.
--

diffServMIBCompliances OBJECT IDENTIFIER ::=
                           { diffServMIBConformance 1 }
diffServMIBGroups      OBJECT IDENTIFIER ::=
                           { diffServMIBConformance 2 }

diffServMIBFullCompliance MODULE-COMPLIANCE
  STATUS current

 DESCRIPTION
    "When this MIB is implemented with support for read-create, then
    such an implementation can claim full compliance. Such devices
    can then be both monitored and configured with this MIB."

  MODULE IF-MIB -- The interfaces MIB, RFC2863
  MANDATORY-GROUPS {



    ifCounterDiscontinuityGroup
  }

  MODULE -- This Module
  MANDATORY-GROUPS {
     diffServMIBDataPathGroup, diffServMIBClfrGroup,
     diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
     diffServMIBActionGroup, diffServMIBAlgDropGroup,
     diffServMIBQGroup, diffServMIBSchedulerGroup,
     diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
     diffServMIBCounterGroup
  }

  GROUP diffServMIBMeterGroup
  DESCRIPTION
    "This group is mandatory for devices that implement metering
    functions."

  GROUP diffServMIBTBParamGroup
  DESCRIPTION
    "This group is mandatory for devices that implement token-bucket
    metering functions."
```

```
 GROUP diffServMIBDscpMarkActGroup
DESCRIPTION
  "This group is mandatory for devices that implement DSCP-Marking
  functions."

GROUP diffServMIBRandomDropGroup
DESCRIPTION
  "This group is mandatory for devices that implement Random Drop
  functions."

OBJECT diffServDataPathStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
  "Support for createAndWait and notInService is not required."

OBJECT diffServClfrStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
  "Support for createAndWait and notInService is not required."

OBJECT diffServClfrElementStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }



DESCRIPTION
  "Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType
SYNTAX  InetAddressType
{ unknown(0), ipv4(1), ipv6(2) }
DESCRIPTION
  "An implementation is only required to support IPv4 and IPv6
  addresses."

OBJECT diffServMultiFieldClfrDstAddr
SYNTAX  InetAddress (SIZE(0|4|16))
DESCRIPTION
  "An implementation is only required to support IPv4 and globally
  unique IPv6 addresses."

OBJECT diffServAlgDropStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
```

```
    "Support for createAndWait and notInService is not required."

  OBJECT diffServRandomDropStatus
  SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT diffServQStatus
  SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT diffServSchedulerStatus
   SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT diffServMinRateStatus
  SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT diffServMaxRateStatus
  SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }



  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  ::= { diffServMIBCompliances 1 }

--
-- Read-Only Compliance
--

diffServMIBReadOnlyCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "When this MIB is implemented without support for read-create
    (i.e. in read-only mode), then such an implementation can claim
    read-only compliance. Such a device can then be monitored but can
    not be configured
```

with this MIB."

```
 MODULE IF-MIB -- The interfaces MIB, RFC2863
 MANDATORY-GROUPS {
   ifCounterDiscontinuityGroup
 }

 MODULE -- This Module
 MANDATORY-GROUPS {
    diffServMIBDataPathGroup, diffServMIBClfrGroup,
    diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
    diffServMIBActionGroup, diffServMIBAlgDropGroup,
    diffServMIBQGroup, diffServMIBSchedulerGroup,
    diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
    diffServMIBCounterGroup
 }

 GROUP diffServMIBMeterGroup
 DESCRIPTION
   "This group is mandatory for devices that implement metering
   functions."

 GROUP diffServMIBTBParamGroup
 DESCRIPTION
   "This group is mandatory for devices that implement token-bucket
   metering functions."

 GROUP       diffServMIBDscpMarkActGroup
 DESCRIPTION
   "This group is mandatory for devices that implement DSCP-Marking
   functions."

 GROUP       diffServMIBRandomDropGroup



  DESCRIPTION
   "This group is mandatory for devices that implement Random Drop
   functions."

 OBJECT      diffServDataPathStart
 MIN-ACCESS   read-only
 DESCRIPTION
   "Write access is not required."

 OBJECT      diffServDataPathStorage
 MIN-ACCESS   read-only
 DESCRIPTION
```

"Write access is not required."

OBJECT diffServDataPathStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object not needed when diffServClfrTable is implemented read-only"

OBJECT diffServClfrStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrElementNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object not needed when diffServClfrelementTable is implemented read-only"

OBJECT diffServClfrElementPrecedence
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementSpecific
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServMultiFieldClfrNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMultiFieldClfrTable is
implemented in read-only mode."

OBJECT diffServMultiFieldClfrAddrType
SYNTAX InetAddressType { unknown(0), ipv4(1), ipv6(2) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required
to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr
SYNTAX InetAddress (SIZE(0|4|16))
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required
to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrDstPrefixLength
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcAddr
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required
to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrSrcPrefixLength
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDscp
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrFlowId
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrProtocol
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMin
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMax
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMin
MIN-ACCESS
read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMax
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrStorage
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, createAndWait and notInService
support is not required."

OBJECT diffServMeterNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMultiFieldClfrTable is
implemented in read-only mode."

OBJECT diffServMeterSucceedNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterFailNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterSpecific
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServTBParamNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServTBParamTable is implemented in
read-only mode."

OBJECT diffServTBParamType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamBurstSize
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT
diffServTBParamInterval
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServActionNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServActionTable is implemented in
read-only mode."

OBJECT diffServActionInterface
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServActionNext
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT diffServActionSpecific
MIN-ACCESS read-only
DESCRIPTION
"Write access
is not required."

OBJECT diffServActionStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServActionStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServCountActNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServCountActTable is implemented
in read-only mode."

OBJECT diffServCountActStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServCountActStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServAlgDropNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServAlgDropTable is implemented in
read-only mode."

OBJECT diffServAlgDropType

MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropNext
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropQMeasure
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropQThreshold
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropSpecific
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServAlgDropStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required,
and active is the only status that
needs to be supported."

OBJECT diffServRandomDropNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServRandomDropTable is implemented
in read-only mode."

OBJECT diffServRandomDropMinThreshBytes
MIN-ACCESS read-only

```
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropMinThreshPkts
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropMaxThreshBytes
MIN-ACCESS  read-only



DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropMaxThreshPkts
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropProbMax
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropWeight
MIN-ACCESS  read-only
DESCRIPTION
   "Write access is not required."

OBJECT      diffServRandomDropSamplingRate
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropStorage
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServRandomDropStatus
SYNTAX      RowStatus { active(1) }
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required, and active is the only status that
  needs to be supported."
```

OBJECT diffServQNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServQTable is implemented in
read-only mode."

OBJECT diffServQNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServQMinRate
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServQMaxRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServQStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServQStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServSchedulerNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServSchedulerTable is implemented
in read-only mode."

OBJECT diffServSchedulerNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMethod

MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMinRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMaxRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerStorage
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServMinRateNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMinRateTable is implemented in
read-only mode."

OBJECT diffServMinRatePriority
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMinRateAbsolute
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMinRateRelative
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT diffServMinRateStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMinRateStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServMaxRateNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMaxrateTable is implemented in
read-only mode."

OBJECT diffServMaxRateAbsolute
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMaxRateRelative
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMaxRateThreshold
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMaxRateStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMaxRateStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

```
  ::= { diffServMIBCompliances 2 }

diffServMIBDataPathGroup OBJECT-GROUP
  OBJECTS {
          diffServDataPathStart, diffServDataPathStorage,
          diffServDataPathStatus
  }
  STATUS      current
  DESCRIPTION
    "The Data Path Group defines the MIB Objects that describe a
    functional data path."
  ::= { diffServMIBGroups 1 }

diffServMIBClfrGroup OBJECT-GROUP
  OBJECTS {
          diffServClfrNextFree, diffServClfrStorage,
          diffServClfrStatus
  }
  STATUS      current
  DESCRIPTION
    "The Classifier Group defines the MIB Objects that describe the




    list the starts of individual classifiers."
  ::= { diffServMIBGroups 2 }

diffServMIBClfrElementGroup
 OBJECT-GROUP
  OBJECTS {
          diffServClfrElementNextFree,
          diffServClfrElementPrecedence, diffServClfrElementNext,
          diffServClfrElementSpecific, diffServClfrElementStorage,
          diffServClfrElementStatus
  }
  STATUS      current
  DESCRIPTION
    "The Classifier Element Group defines the MIB Objects that
    describe the classifier elements that make up a generic
    classifier."
  ::= { diffServMIBGroups 3 }

diffServMIBMultiFieldClfrGroup OBJECT-GROUP
  OBJECTS {
          diffServMultiFieldClfrNextFree,
          diffServMultiFieldClfrAddrType,
          diffServMultiFieldClfrDstAddr,
```

```
            diffServMultiFieldClfrDstPrefixLength,
            diffServMultiFieldClfrFlowId,
            diffServMultiFieldClfrSrcAddr,
            diffServMultiFieldClfrSrcPrefixLength,
            diffServMultiFieldClfrDscp,
            diffServMultiFieldClfrProtocol,
            diffServMultiFieldClfrDstL4PortMin,
             diffServMultiFieldClfrDstL4PortMax,
            diffServMultiFieldClfrSrcL4PortMin,
            diffServMultiFieldClfrSrcL4PortMax,
            diffServMultiFieldClfrStorage,
            diffServMultiFieldClfrStatus
    }
    STATUS       current
    DESCRIPTION
      "The Multi-field Classifier Group defines the MIB Objects that
      describe a classifier element for matching on various fields of
      an IP and upper-layer protocol header."
    ::= { diffServMIBGroups 4 }

diffServMIBMeterGroup OBJECT-GROUP
    OBJECTS {
            diffServMeterNextFree, diffServMeterSucceedNext,
            diffServMeterFailNext, diffServMeterSpecific,
            diffServMeterStorage, diffServMeterStatus
    }



    STATUS       current
    DESCRIPTION
      "The Meter Group defines the objects used in describing a generic
      meter element."
    ::= { diffServMIBGroups 5 }

diffServMIBTBParamGroup OBJECT-GROUP
    OBJECTS {
            diffServTBParamNextFree,
 diffServTBParamType,
            diffServTBParamRate, diffServTBParamBurstSize,
            diffServTBParamInterval, diffServTBParamStorage,
            diffServTBParamStatus
    }
    STATUS       current
    DESCRIPTION
      "The Token-Bucket Meter Group defines the objects used in
      describing a token bucket meter element."
    ::= { diffServMIBGroups 6 }
```

```
diffServMIBActionGroup OBJECT-GROUP
  OBJECTS {
          diffServActionNextFree, diffServActionNext,
          diffServActionSpecific, diffServActionStorage,
          diffServActionInterface, diffServActionStatus
  }
  STATUS      current
  DESCRIPTION
    "The Action Group defines the objects used in describing a
    generic action element."
  ::= { diffServMIBGroups 7 }

diffServMIBDscpMarkActGroup OBJECT-GROUP
  OBJECTS {
          diffServDscpMarkActDscp
  }
  STATUS      current
  DESCRIPTION
    "The DSCP Mark Action Group defines the objects used in
     describing a DSCP Marking Action element."
  ::= { diffServMIBGroups 8 }

diffServMIBCounterGroup OBJECT-GROUP
  OBJECTS {
          diffServCountActOctets, diffServCountActPkts,
          diffServAlgDropOctets, diffServAlgDropPkts,
          diffServAlgRandomDropOctets, diffServAlgRandomDropPkts,
          diffServCountActStorage, diffServCountActStatus,
          diffServCountActNextFree




  }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing information specific to
    packet-oriented network interfaces."
  ::= { diffServMIBGroups 9 }

diffServMIBAlgDropGroup OBJECT-GROUP
  OBJECTS {
          diffServAlgDropNextFree, diffServAlgDropType,
          diffServAlgDropNext, diffServAlgDropQMeasure,
          diffServAlgDropQThreshold, diffServAlgDropSpecific,
          diffServAlgDropStorage, diffServAlgDropStatus
  }
  STATUS      current
```

```
  DESCRIPTION
    "The Algorithmic Drop Group contains
 the objects that describe
    algorithmic dropper operation and configuration."
  ::= { diffServMIBGroups 10 }

diffServMIBRandomDropGroup OBJECT-GROUP
  OBJECTS {
          diffServRandomDropNextFree,
          diffServRandomDropMinThreshBytes,
          diffServRandomDropMinThreshPkts,
          diffServRandomDropMaxThreshBytes,
          diffServRandomDropMaxThreshPkts,
          diffServRandomDropProbMax,
          diffServRandomDropWeight,
          diffServRandomDropSamplingRate,
          diffServRandomDropStorage,
          diffServRandomDropStatus
  }
  STATUS      current
  DESCRIPTION
    "The Random Drop Group augments the Algorithmic Drop Group for
    random dropper operation and configuration."
  ::= { diffServMIBGroups 11 }

diffServMIBQGroup OBJECT-GROUP

  OBJECTS {
          diffServQNextFree, diffServQNext, diffServQMinRate,
          diffServQMaxRate, diffServQStorage, diffServQStatus

 }
  STATUS      current
  DESCRIPTION
    "The Queue Group contains the objects that describe an




    interface's queues."
  ::= { diffServMIBGroups 12 }

diffServMIBSchedulerGroup OBJECT-GROUP
  OBJECTS {
          diffServSchedulerNextFree, diffServSchedulerNext,
          diffServSchedulerMethod, diffServSchedulerMinRate,
          diffServSchedulerMaxRate, diffServSchedulerStorage,
          diffServSchedulerStatus
  }
```

```
  STATUS       current
  DESCRIPTION
    "The Scheduler Group contains the objects that describe packet
    schedulers on interfaces."
  ::= { diffServMIBGroups 13 }

diffServMIBMinRateGroup OBJECT-GROUP
  OBJECTS {
          diffServMinRateNextFree, diffServMinRatePriority,
          diffServMinRateAbsolute, diffServMinRateRelative,
          diffServMinRateStorage, diffServMinRateStatus
  }
  STATUS       current
  DESCRIPTION
    "The Minimum Rate Parameter Group contains the objects that

  describe packet schedulers' minimum rate or priority guarantees."
  ::= { diffServMIBGroups 14 }

diffServMIBMaxRateGroup OBJECT-GROUP
  OBJECTS {
          diffServMaxRateNextFree, diffServMaxRateAbsolute,
          diffServMaxRateRelative, diffServMaxRateThreshold,
          diffServMaxRateStorage, diffServMaxRateStatus
  }
  STATUS       current
  DESCRIPTION
    "The Maximum Rate Parameter Group contains the objects that
    describe packet schedulers' maximum rate guarantees."
  ::= { diffServMIBGroups 15 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB
No license file was found, but licenses were detected in source scan.

RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
    Counter32, Integer32, Gauge32,
    IpAddress, TimeTicks, mib-2      FROM SNMPv2-SMI
    SnmpAdminString                  FROM SNMP-FRAMEWORK-MIB
    InetAddressType, InetAddress,
    InetPortNumber                   FROM INET-ADDRESS-MIB
    MODULE-COMPLIANCE, OBJECT-GROUP  FROM SNMPv2-CONF;
```

```
radiusAccClientMIB MODULE-IDENTITY
    LAST-UPDATED "200608210000Z" -- 21 August 2006
    ORGANIZATION "IETF RADIUS Extensions Working Group."
    CONTACT-INFO
          " Bernard Aboba
            Microsoft
            One Microsoft Way




            Redmond, WA  98052
            US
            Phone: +1 425 936 6605
            EMail: bernarda@microsoft.com"
    DESCRIPTION
         "The MIB module for entities implementing the client
          side of the Remote
 Authentication Dial-In User Service
          (RADIUS) accounting protocol.  Copyright (C) The
          Internet Society (2006).  This version of this MIB
          module is part of RFC 4670; see the RFC itself for
          full legal notices."
    REVISION "200608210000Z"  -- 21 August 2006
    DESCRIPTION
         "Revised version as published in RFC 4670.
          This version obsoletes that of RFC 2620 by
          deprecating the MIB table containing IPv4-only
          address formats and defining a new table to add support
          for version-neutral IP address formats.  The remaining
          MIB objects from RFC 2620 are carried forward into this
          version."
    REVISION "199906110000Z"  -- 11 Jun 1999
    DESCRIPTION "Initial version as published in RFC 2620."
    ::= { radiusAccounting 2 }

radiusMIB OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
         "The OID assigned to RADIUS MIB work by the IANA."
     ::= { mib-2 67 }

radiusAccounting  OBJECT IDENTIFIER ::= {radiusMIB 2}

radiusAccClientMIBObjects     OBJECT IDENTIFIER
    ::= { radiusAccClientMIB 1 }

radiusAccClient  OBJECT IDENTIFIER
```

```
    ::= { radiusAccClientMIBObjects 1 }

radiusAccClientInvalidServerAddresses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Response packets
         received from unknown addresses."
    ::= { radiusAccClient 1 }




radiusAccClientIdentifier OBJECT-TYPE
    SYNTAX SnmpAdminString
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The NAS-Identifier of the RADIUS accounting client.
         This is not necessarily the same as sysName in MIB
         II."
    REFERENCE "RFC 2865 section 5.32"
    ::= { radiusAccClient 2 }

radiusAccServerTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RadiusAccServerEntry
    MAX-ACCESS not-accessible
     STATUS     deprecated
    DESCRIPTION
        "The (conceptual) table listing the RADIUS accounting
         servers with which the client shares a secret."
    ::= { radiusAccClient 3 }

radiusAccServerEntry OBJECT-TYPE
    SYNTAX     RadiusAccServerEntry
    MAX-ACCESS not-accessible
    STATUS     deprecated
    DESCRIPTION
        "An entry (conceptual row) representing a RADIUS
         accounting server with which the client shares a
         secret."
    INDEX      { radiusAccServerIndex }
    ::= { radiusAccServerTable 1 }

RadiusAccServerEntry ::= SEQUENCE {
    radiusAccServerIndex                    Integer32,
```

```
    radiusAccServerAddress                  IpAddress,
    radiusAccClientServerPortNumber            Integer32,
    radiusAccClientRoundTripTime               TimeTicks,
    radiusAccClientRequests                 Counter32,
    radiusAccClientRetransmissions
  Counter32,
    radiusAccClientResponses                 Counter32,
    radiusAccClientMalformedResponses          Counter32,
    radiusAccClientBadAuthenticators           Counter32,
    radiusAccClientPendingRequests              Gauge32,
    radiusAccClientTimeouts                 Counter32,
    radiusAccClientUnknownTypes                Counter32,
    radiusAccClientPacketsDropped              Counter32
}



radiusAccServerIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..2147483647)
    MAX-ACCESS not-accessible
    STATUS     deprecated
    DESCRIPTION
        "A number uniquely identifying each RADIUS
         Accounting server with which this client
         communicates."
    ::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE
    SYNTAX     IpAddress
    MAX-ACCESS read-only
    STATUS     deprecated
    DESCRIPTION
        "The IP address of the RADIUS accounting server

    referred to in this table entry."
    ::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber  OBJECT-TYPE
    SYNTAX Integer32 (0..65535)
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The UDP port the client is using to send requests to
         this server."
    REFERENCE "RFC 2866 section 3"
    ::= { radiusAccServerEntry 3 }
```

```
radiusAccClientRoundTripTime  OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The time interval between the most recent
        Accounting-Response and the Accounting-Request that
        matched it from this RADIUS accounting server."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerEntry 4 }

-- Request/Response statistics
--
-- Requests = Responses + PendingRequests + ClientTimeouts
--
-- Responses - MalformedResponses - BadAuthenticators -
-- UnknownTypes - PacketsDropped = Successfully received




radiusAccClientRequests
 OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
        sent.  This does not include retransmissions."
    REFERENCE "RFC 2866 section 4.1"
    ::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
        retransmitted to this RADIUS accounting server.
        Retransmissions include retries where the
        Identifier and Acct-Delay have been updated, as
        well as those in which they remain the same."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerEntry 6 }
```

```
radiusAccClientResponses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
     DESCRIPTION
         "The number of RADIUS packets received on the
          accounting port from this server."
    REFERENCE "RFC 2866 section 4.2"
    ::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
         "The number of malformed RADIUS Accounting-Response
          packets received from this server.  Malformed packets
         include packets with an invalid length.  Bad
         authenticators and unknown types are not included as
         malformed accounting responses."
    REFERENCE "RFC 2866 section 3"



    ::= { radiusAccServerEntry 8 }

radiusAccClientBadAuthenticators OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
         "The number of RADIUS Accounting-Response
          packets that contained invalid
 authenticators
          received from this server."
    REFERENCE "RFC 2866 section 3"
    ::= { radiusAccServerEntry 9 }

radiusAccClientPendingRequests OBJECT-TYPE
    SYNTAX Gauge32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
```

```
            "The number of RADIUS Accounting-Request packets
             sent to this server that have not yet timed out or
             received a response.  This variable is incremented
             when an Accounting-Request is sent and decremented
             due to receipt of an Accounting-Response, a timeout,
             or a retransmission."
        REFERENCE "RFC 2866 section 2"
        ::= { radiusAccServerEntry 10 }

radiusAccClientTimeouts OBJECT-TYPE
       SYNTAX Counter32
       UNITS "timeouts"
       MAX-ACCESS read-only
       STATUS deprecated
       DESCRIPTION
           "The number of accounting timeouts to this server.
            After a timeout, the client may retry to the same

  server, send to a different server, or give up.
            A retry to the same server is counted as a
            retransmit as well as a timeout.  A send to a different
            server is counted as an Accounting-Request as well as
            a timeout."
        REFERENCE "RFC 2866 section 2"
        ::= { radiusAccServerEntry  11 }

radiusAccClientUnknownTypes OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"



        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS packets of unknown type that
             were received from this server on the accounting port."
        REFERENCE "RFC 2866 section 4"
        ::= { radiusAccServerEntry  12 }

radiusAccClientPacketsDropped OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS packets that were received from
             this server on the accounting port and dropped for some
```

```
      other reason."
    ::= { radiusAccServerEntry  13 }


-- New MIB objects added in this revision

radiusAccServerExtTable OBJECT-TYPE
    SYNTAX SEQUENCE OF RadiusAccServerExtEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "The (conceptual) table listing the RADIUS accounting
         servers with which the client shares a secret."
    ::= { radiusAccClient 4 }

radiusAccServerExtEntry OBJECT-TYPE
    SYNTAX     RadiusAccServerExtEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "An entry (conceptual row) representing a RADIUS
         accounting server with which the client shares a
         secret."
    INDEX      { radiusAccServerExtIndex }
    ::= { radiusAccServerExtTable 1 }

RadiusAccServerExtEntry ::= SEQUENCE {
    radiusAccServerExtIndex                 Integer32,
    radiusAccServerInetAddressType          InetAddressType,
    radiusAccServerInetAddress
            InetAddress,
    radiusAccClientServerInetPortNumber     InetPortNumber,
    radiusAccClientExtRoundTripTime         TimeTicks,



    radiusAccClientExtRequests              Counter32,
    radiusAccClientExtRetransmissions       Counter32,
    radiusAccClientExtResponses             Counter32,
    radiusAccClientExtMalformedResponses    Counter32,
    radiusAccClientExtBadAuthenticators     Counter32,
    radiusAccClientExtPendingRequests       Gauge32,
    radiusAccClientExtTimeouts              Counter32,
    radiusAccClientExtUnknownTypes          Counter32,
    radiusAccClientExtPacketsDropped        Counter32,
    radiusAccClientCounterDiscontinuity     TimeTicks
}
```

```
radiusAccServerExtIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..2147483647)
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "A number uniquely identifying each RADIUS
         Accounting server
 with which this client
         communicates."
    ::= { radiusAccServerExtEntry 1 }


radiusAccServerInetAddressType OBJECT-TYPE
       SYNTAX     InetAddressType
       MAX-ACCESS read-only
       STATUS     current
       DESCRIPTION
            "The type of address format used for the
             radiusAccServerInetAddress object."
       ::= { radiusAccServerExtEntry 2 }


 radiusAccServerInetAddress OBJECT-TYPE
       SYNTAX     InetAddress
       MAX-ACCESS read-only
       STATUS     current
       DESCRIPTION
            "The IP address of the RADIUS accounting
             server referred to in this table entry, using
             the version-neutral IP address format."
       ::= { radiusAccServerExtEntry 3 }

 radiusAccClientServerInetPortNumber  OBJECT-TYPE
       SYNTAX InetPortNumber ( 1..65535 )
       MAX-ACCESS read-only
       STATUS current
       DESCRIPTION




            "The UDP port the client is using
 to send requests
             to this accounting server.  The value zero (0) is
             invalid."
       REFERENCE "RFC 2866 section 3"
       ::= { radiusAccServerExtEntry 4 }
```

```
radiusAccClientExtRoundTripTime  OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The time interval between the most recent
        Accounting-Response and the Accounting-Request that
        matched it from this RADIUS accounting server."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerExtEntry 5 }

-- Request/Response statistics
--
-- Requests = Responses + PendingRequests + ClientTimeouts
--
-- Responses - MalformedResponses - BadAuthenticators -
-- UnknownTypes - PacketsDropped = Successfully received

radiusAccClientExtRequests OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Request
 packets
        sent.  This does not include retransmissions.
        This counter may experience a discontinuity when the
        RADIUS Accounting Client module within the managed
        entity is reinitialized, as indicated by the current
        value of radiusAccClientCounterDiscontinuity."
    REFERENCE "RFC 2866 section 4.1"
    ::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
        retransmitted to this RADIUS accounting server.



        Retransmissions include retries where the
        Identifier and Acct-Delay have been updated, as
```

```
            well as those in which they remain the same.
            This counter may experience a discontinuity when the
            RADIUS Accounting Client module within the managed

        entity is reinitialized, as indicated by the current
            value of radiusAccClientCounterDiscontinuity."
        REFERENCE "RFC 2866 section 2"
        ::= { radiusAccServerExtEntry 7 }

    radiusAccClientExtResponses OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "The number of RADIUS packets received on the
             accounting port from this server.  This counter
             may experience a discontinuity when the RADIUS
             Accounting Client module within the managed entity is
             reinitialized, as indicated by the current value of
             radiusAccClientCounterDiscontinuity."
        REFERENCE "RFC 2866 section 4.2"
        ::= { radiusAccServerExtEntry 8 }

    radiusAccClientExtMalformedResponses OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "The number of malformed RADIUS Accounting-Response
             packets received from this server.  Malformed packets
             include packets with an invalid length.  Bad
             authenticators and unknown types are not included as
             malformed accounting responses.  This counter may
             experience a discontinuity when the RADIUS Accounting
             Client module within the managed entity is
             reinitialized, as indicated by the current
             value of radiusAccClientCounterDiscontinuity."
        REFERENCE "RFC 2866 section 3"
        ::= { radiusAccServerExtEntry 9 }

    radiusAccClientExtBadAuthenticators OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS current
```

```
    DESCRIPTION
        "The number of RADIUS Accounting-Response
         packets that contained invalid authenticators
         received from this server.  This counter may
         experience a discontinuity when the RADIUS
         Accounting Client
 module within the managed
         entity is reinitialized, as indicated by the
         current value of
         radiusAccClientCounterDiscontinuity."
    REFERENCE "RFC 2866 section 3"
    ::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE
    SYNTAX Gauge32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
         sent to this server that have not yet timed out or
         received a response.  This variable is incremented
         when an Accounting-Request is sent and decremented
         due to receipt of an Accounting-Response, a timeout,
         or a retransmission.  This counter may experience a
         discontinuity when the RADIUS Accounting Client module
         within the managed entity is reinitialized, as
         indicated by the current value of
         radiusAccClientCounterDiscontinuity."
     REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE
   SYNTAX Counter32
   UNITS "timeouts"
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
       "The number of accounting timeouts to this server.
        After a timeout, the client may retry to the same
        server, send to a different server, or give up.
        A retry to the same server is counted as a
        retransmit as well as a timeout.  A send to a different
        server is counted as an Accounting-Request as well as
        a timeout.  This counter may experience a discontinuity
        when the RADIUS Accounting Client module within the
```

```
          managed entity is reinitialized, as indicated by the
          current value of radiusAccClientCounterDiscontinuity."
      REFERENCE "RFC 2866 section 2"



      ::= { radiusAccServerExtEntry  12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE
      SYNTAX
 Counter32
      UNITS "packets"
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of RADIUS packets of unknown type that
           were received from this server on the accounting port.
           This counter may experience a discontinuity when the
           RADIUS Accounting Client module within the managed
           entity is reinitialized, as indicated by the current
           value of radiusAccClientCounterDiscontinuity."
      REFERENCE "RFC 2866 section 4"
      ::= { radiusAccServerExtEntry  13 }

radiusAccClientExtPacketsDropped OBJECT-TYPE
      SYNTAX Counter32
      UNITS "packets"
      MAX-ACCESS read-only
      STATUS current
      DESCRIPTION
          "The number of RADIUS packets that were received from
           this server on the accounting port and dropped for some
           other reason.  This counter may experience a
           discontinuity when the RADIUS Accounting Client module
           within
 the managed entity is reinitialized, as indicated
           by the current value of
           radiusAccClientCounterDiscontinuity."
      ::= { radiusAccServerExtEntry  14 }

radiusAccClientCounterDiscontinuity OBJECT-TYPE
        SYNTAX TimeTicks
        UNITS "centiseconds"
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "The number of centiseconds since the last
             discontinuity in the RADIUS Accounting Client
```

```
            counters.  A discontinuity may be the result of a
            reinitialization of the RADIUS Accounting Client
            module within the managed entity."
        ::= { radiusAccServerExtEntry 15 }




-- conformance information

radiusAccClientMIBConformance  OBJECT IDENTIFIER
    ::= { radiusAccClientMIB 2 }

radiusAccClientMIBCompliances  OBJECT IDENTIFIER
    ::= { radiusAccClientMIBConformance 1 }

radiusAccClientMIBGroups  OBJECT IDENTIFIER
    ::= { radiusAccClientMIBConformance
 2 }


-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE
   STATUS  deprecated
   DESCRIPTION
        "The compliance statement for accounting clients
         implementing the RADIUS Accounting Client MIB.
         Implementation of this module is for IPv4-only
         entities, or for backwards compatibility use with
         entities that support both IPv4 and IPv6."
   MODULE  -- this module
      MANDATORY-GROUPS { radiusAccClientMIBGroup }

   ::= { radiusAccClientMIBCompliances 1 }


radiusAccClientExtMIBCompliance MODULE-COMPLIANCE
   STATUS  current
   DESCRIPTION
        "The compliance statement for accounting
         clients implementing the RADIUS Accounting
         Client IPv6 Extensions MIB.  Implementation of
         this module is for entities that support IPv6,
         or support IPv4 and IPv6."
```

```
    MODULE  -- this module
        MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

    OBJECT
  radiusAccServerInetAddressType
    SYNTAX InetAddressType { ipv4(1), ipv6(2) }
    DESCRIPTION
          "An implementation is only required to support
           IPv4 and globally unique IPv6 addresses."

    OBJECT radiusAccServerInetAddress
    SYNTAX InetAddress ( SIZE (4|16) )
    DESCRIPTION




          "An implementation is only required to support
           IPv4 and globally unique IPv6 addresses."

    ::= { radiusAccClientMIBCompliances 2 }


-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP
    OBJECTS { radiusAccClientIdentifier,
              radiusAccClientInvalidServerAddresses,
              radiusAccServerAddress,
              radiusAccClientServerPortNumber,
              radiusAccClientRoundTripTime,
              radiusAccClientRequests,
              radiusAccClientRetransmissions,
              radiusAccClientResponses,
              radiusAccClientMalformedResponses,
              radiusAccClientBadAuthenticators,

          radiusAccClientPendingRequests,
              radiusAccClientTimeouts,
              radiusAccClientUnknownTypes,
              radiusAccClientPacketsDropped
        }
    STATUS  deprecated
    DESCRIPTION
          "The basic collection of objects providing management of
           RADIUS Accounting Clients."
    ::= { radiusAccClientMIBGroups 1 }
```

```
radiusAccClientExtMIBGroup OBJECT-GROUP
   OBJECTS { radiusAccClientIdentifier,
             radiusAccClientInvalidServerAddresses,
             radiusAccServerInetAddressType,
             radiusAccServerInetAddress,
             radiusAccClientServerInetPortNumber,
             radiusAccClientExtRoundTripTime,
             radiusAccClientExtRequests,
             radiusAccClientExtRetransmissions,
             radiusAccClientExtResponses,
             radiusAccClientExtMalformedResponses,
             radiusAccClientExtBadAuthenticators,
             radiusAccClientExtPendingRequests,

   radiusAccClientExtTimeouts,
             radiusAccClientExtUnknownTypes,
             radiusAccClientExtPacketsDropped,
             radiusAccClientCounterDiscontinuity



      }
   STATUS  current
   DESCRIPTION
       "The basic collection of objects providing management of
        RADIUS Accounting Clients."
   ::= { radiusAccClientMIBGroups 2 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RADIUS-ACC-CLIENT-MIB
No license file was found, but licenses were detected in source scan.

```
MIOX25-MIB DEFINITIONS  ::= BEGIN

IMPORTS
      Counter,
      TimeTicks
            FROM RFC1155-SMI
      OBJECT-TYPE
            FROM RFC-1212
      DisplayString, transmission,
      ifIndex
            FROM RFC1213-MIB
      InstancePointer
            FROM RFC1316-MIB
```

```
        X121Address
                FROM RFC1382-MIB
        PositiveInteger
                FROM RFC1381-MIB;

                -- IP over X.25 MIB

miox    OBJECT IDENTIFIER ::= { transmission 38 }

mioxPle         OBJECT IDENTIFIER ::= { miox 1 }
mioxPeer        OBJECT IDENTIFIER ::= { miox 2 }

-- ###############################################################
--              Ple Table
-- ###############################################################

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPleTable    OBJECT-TYPE
        SYNTAX  SEQUENCE OF MioxPleEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
                "This table contains information relative to
                an interface to an X.25 Packet Level Entity
                (PLE)."
        ::= { mioxPle 1   }

mioxPleEntry    OBJECT-TYPE
        SYNTAX  MioxPleEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
                "These objects manage the encapsulation of
                other protocols within X.25."
        INDEX { ifIndex }
        ::= { mioxPleTable 1 }

MioxPleEntry ::= SEQUENCE {
        mioxPleMaxCircuits
                INTEGER,
        mioxPleRefusedConnections
                Counter,
        mioxPleEnAddrToX121LkupFlrs
                Counter,
        mioxPleLastFailedEnAddr
                OCTET STRING,
```

```
        mioxPleEnAddrToX121LkupFlrTime
                TimeTicks,
        mioxPleX121ToEnAddrLkupFlrs
                Counter,
        mioxPleLastFailedX121Address
                X121Address,
        mioxPleX121ToEnAddrLkupFlrTime
                 TimeTicks,
        mioxPleQbitFailures
                Counter,
        mioxPleQbitFailureRemoteAddress
                X121Address,
        mioxPleQbitFailureTime
                TimeTicks,
        mioxPleMinimumOpenTimer
                PositiveInteger,
        mioxPleInactivityTimer
                PositiveInteger,
        mioxPleHoldDownTimer
                PositiveInteger,
        mioxPleCollisionRetryTimer
                PositiveInteger,
        mioxPleDefaultPeerId
                InstancePointer
        }

mioxPleMaxCircuits OBJECT-TYPE
        SYNTAX  INTEGER (0..2147483647)
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
                "The maximum number of X.25 circuits that
                can be open at one time for this interface.
                A value of zero indicates the interface will
                not allow any additional circuits (as it may
                soon be shutdown).  A value of 2147483647
                 allows an unlimited number of circuits."
        ::= { mioxPleEntry 1 }

mioxPleRefusedConnections OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
                "The number of X.25 calls from a remote
                systems to this system that were cleared by
                this system.  The interface instance should
                identify the X.25 interface the call came in
```

```
            on."
        ::= { mioxPleEntry 2 }

    mioxPleEnAddrToX121LkupFlrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The number of times a translation from an
            Encapsulated Address to an X.121 address
            failed to find a corresponding X.121
            address.  Encapsulated addresses can be
            looked up in the mioxPeerTable or translated
            via an algorithm as for the DDN.  Addresses

            that are successfully recognized do not
            increment this counter.  Addresses that are
            not recognized (reflecting an abnormal
            packet delivery condition) increment this
            counter.

            If an address translation fails, it may be
            difficult to determine which PLE entry
            should count the failure.  In such cases the
            first likely entry in this table should be
            selected.  Agents should record the failure
            even if they are unsure which PLE should be
            associated with the failure."
        ::= { mioxPleEntry 3 }

    mioxPleLastFailedEnAddr OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(2..128))
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The last Encapsulated address that failed
            to find a corresponding X.121 address and
            caused mioxPleEnAddrToX121LkupFlrs
     to be
            incremented.  The first octet of this object
            contains the encapsulation type, the
            remaining octets contain the address of that
            type that failed.  Thus for an IP address,
            the length will be five octets, the first
            octet will contain 204 (hex CC), and the
            last four octets will contain the IP
            address.  For a snap encapsulation, the
            first byte would be 128 (hex 80) and the
```

```
            rest of the octet string would have the snap
            header."
        ::= { mioxPleEntry 4 }

mioxPleEnAddrToX121LkupFlrTime OBJECT-TYPE
        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when the
            translation from an Encapsulated Address to
            X.121 address failed to find a corresponding
            X.121 address."
         ::= { mioxPleEntry 5 }


mioxPleX121ToEnAddrLkupFlrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The number of times the translation from an
            X.121 address to an Encapsulated Address
            failed to find a corresponding Encapsulated
            Address.  Addresses successfully recognized
            by an algorithm do not increment this
            counter.  This counter reflects the number
            of times call acceptance encountered the
            abnormal condition of not recognizing the
            peer."
        ::= { mioxPleEntry 6 }

mioxPleLastFailedX121Address OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The last X.121 address that caused
            mioxPleX121ToEnAddrLkupFlrs to increase."
        ::= { mioxPleEntry 7 }

mioxPleX121ToEnAddrLkupFlrTime
 OBJECT-TYPE
        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when the
```

```
            translation from an X.121 address to an
            Encapsulated Address failed to find a
            corresponding Encapsulated Address."
        ::= { mioxPleEntry 8 }

    mioxPleQbitFailures OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The number of times a connection was closed
            because of a Q-bit failure."
        ::= { mioxPleEntry 9 }

    mioxPleQbitFailureRemoteAddress OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The remote address of the most recent
            (last) connection that was closed because of
            a Q-bit failure."
        ::= { mioxPleEntry 10 }

    mioxPleQbitFailureTime OBJECT-TYPE

        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when a
            connection was closed because of a Q-bit
            failure.  This will also be the last time
            that mioxPleQbitFailures was incremented."
        ::= { mioxPleEntry 11 }

    mioxPleMinimumOpenTimer OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The minimum time in milliseconds this
            interface will keep a connection open before
            allowing it to be closed.  A value of zero
            indicates no timer."
        DEFVAL { 0 }
        ::= { mioxPleEntry 12 }
```

```
mioxPleInactivityTimer OBJECT-TYPE
    SYNTAX  PositiveInteger
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The amount of time time in milliseconds
        this interface will
 keep an idle connection
        open before closing it.  A value of
        2147483647 indicates no timer."
    DEFVAL { 10000 }
    ::= { mioxPleEntry 13 }

mioxPleHoldDownTimer    OBJECT-TYPE
    SYNTAX  PositiveInteger
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The hold down timer in milliseconds.  This
        is the minimum amount of time to wait before
        trying another call to a host that was
        previously unsuccessful.  A value of
        2147483647 indicates the host will not be
        retried."
    DEFVAL { 0 }
    ::= { mioxPleEntry 14 }

mioxPleCollisionRetryTimer OBJECT-TYPE
    SYNTAX  PositiveInteger
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The Collision Retry Timer in milliseconds.
        The time to delay between call attempts when
        the maximum number of circuits
 is exceeded
        in a call attempt."
    DEFVAL { 0 }
    ::= { mioxPleEntry 15 }


mioxPleDefaultPeerId OBJECT-TYPE
    SYNTAX  InstancePointer
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "This identifies the instance of the index
        in the mioxPeerTable for the default
```

```
            parameters to use with this interface.

            The entry identified by this object may have
            a zero length Encapsulation address and a
            zero length X.121 address.

            These default parameters are used with
            connections to hosts that do not have
            entries in the mioxPeerTable.  Such
            connections occur when using ddn-x25 IP-X.25
            address mapping or when accepting
            connections from other hosts not in the
            mioxPeerTable.

            The mioxPeerEncTable entry with the same

          index as the mioxPeerTable entry specifies
            the call encapsulation types this PLE will
            accept for peers not in the mioxPeerTable.
            If the mioxPeerEncTable doesn't contain any
            entries, this PLE will not accept calls from
            entries not in the mioxPeerTable."
        ::= { mioxPleEntry 16 }



-- ###############################################################
--              Peer Table
-- ###############################################################

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPeerTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF MioxPeerEntry
      ACCESS  not-accessible
      STATUS  mandatory
      DESCRIPTION
            "This table contains information about the
            possible peers this machine may exchange
            packets with."
      ::= { mioxPeer 1 }

mioxPeerEntry OBJECT-TYPE
      SYNTAX  MioxPeerEntry

 ACCESS  not-accessible
      STATUS  mandatory
```

```
        DESCRIPTION
                "Per peer information."
        INDEX { mioxPeerIndex   }
        ::= { mioxPeerTable 1 }


MioxPeerEntry ::= SEQUENCE {
        mioxPeerIndex
                PositiveInteger,
        mioxPeerStatus
                INTEGER,
        mioxPeerMaxCircuits
                PositiveInteger,
        mioxPeerIfIndex
                PositiveInteger,
        mioxPeerConnectSeconds
                Counter,
        mioxPeerX25CallParamId
                InstancePointer,
        mioxPeerEnAddr
                OCTET STRING,
        mioxPeerX121Address
                X121Address,
        mioxPeerX25CircuitId
                InstancePointer,
        mioxPeerDescr
                DisplayString
        }

mioxPeerIndex   OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
                "An index value that distinguished one entry
                from another.
  This index is independent of
                any other index."
        ::= { mioxPeerEntry 1 }

-- Systems can claim conformance with this MIB without
-- implementing sets to mioxPeerStatus with a value of
-- clearCall or makeCall.
-- All other defined values must be accepted.
-- Implementors should realize that allowing these values
-- provides richer management, and implementations
-- are encouraged to accept these values.
mioxPeerStatus OBJECT-TYPE
```

SYNTAX INTEGER {
valid (1),
createRequest (2),
underCreation (3),
invalid (4),
clearCall (5),
makeCall (6)
}
ACCESS read-write
STATUS mandatory
DESCRIPTION
"This reports the status of a peer entry.
A value of valid indicates a normal entry
that is in use by the agent. A value of

underCreation indicates a newly created
entry which isn't yet in use because the
creating management station is still setting
values.

The value of invalid indicates the entry is
no longer in use and the agent is free to
delete the entry at any time. A management
station is also free to use an entry in the
invalid state.

Entries are created by setting a value of
createRequest. Only non-existent or invalid
entries can be set to createRequest. Upon
receiving a valid createRequest, the agent
will create an entry in the underCreation
state. This object can not be set to a
value of underCreation directly, entries can
only be created by setting a value of
createRequest. Entries that exist in other

than the invalid state can not be set to
createRequest.

Entries with a value of underCreation are
not used by the system and the management
station can change the values of other
objects in the table entry. Management
stations should also remember to configure
values in the mioxPeerEncTable with the same
peer index value as this peer entry.

An entry in the underCreation state can be

set to valid or invalid. Entries in the underCreation state will stay in that state until 1) the agent times them out, 2) they are set to valid, 3) they are set to invalid. If an agent notices an entry has been in the underCreation state for an abnormally long time, it may decide the management station has failed and invalidate

the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

Entries in the valid state may also be set to makeCall or clearCall to make or clear X.25 calls to the peer. After such a set request the entry will still be in the valid state. Setting a value of makeCall causes the agent to initiate an X.25 call request to the peer specified by the entry. Setting a value of clearCall causes the agent to initiate clearing one X.25 call present

to

the peer. Each set request will initiate another call or clear request (up to the maximum allowed); this means that management stations that fail to get a response to a set request should query to see if a call was in fact placed or cleared before retrying the request. Entries not in the valid state can not be set to makeCall or clearCall.

The values of makeCall and clearCall provide for circuit control on devices which perform Ethernet Bridging using static circuit assignment without address recognition; other devices which dynamically place calls based on destination addresses may reject such requests.

```
            An agent that (re)creates a new entry
            because of a set with createRequest, should

        also (re)create a mioxPeerEncTable entry
            with a mioxPeerEncIndex of 1, and a
            mioxPeerEncType of 204 (hex CC)."
        ::= { mioxPeerEntry 2 }

mioxPeerMaxCircuits OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS    mandatory
        DESCRIPTION
            "The maximum number of X.25 circuits allowed
            to this peer."
        DEFVAL { 1 }
        ::= { mioxPeerEntry 3 }

mioxPeerIfIndex OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The value of the ifIndex object for the
            interface to X.25 to use to call the peer."
        DEFVAL { 1 }
        ::= { mioxPeerEntry 4 }

mioxPeerConnectSeconds OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The number of seconds a call to this peer
            was active.  This counter
 will be
            incremented by one for every second a
            connection to a peer was open.  If two calls
            are open at the same time, one second of
            elapsed real time will results in two
            seconds of connect time."
        ::= { mioxPeerEntry 5 }

mioxPeerX25CallParamId OBJECT-TYPE
        SYNTAX  InstancePointer
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
```

```
            "The instance of the index object in the
            x25CallParmTable from RFC 1382 for the X.25
            call parameters used to communicate with the
            remote host.  The well known value {0 0}
            indicates no call parameters specified."
        DEFVAL { {0 0} }
        ::= { mioxPeerEntry 6 }

mioxPeerEnAddr  OBJECT-TYPE
        SYNTAX    OCTET STRING (SIZE (0..128))
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The Encapsulation address of the remote
             host mapped by this table entry.  A length
            of zero indicates the remote IP address is
            unknown or unspecified for use as a PLE
            default.

            The first octet of this object contains the
            encapsulation type, the remaining octets
            contain an address of that type.  Thus for
            an IP address, the length will be five
            octets, the first octet will contain 204
            (hex CC), and the last four octets will
            contain the IP address.  For a snap
            encapsulation, the first byte would be 128
            (hex 80) and the rest of the octet string
            would have the snap header."
        DEFVAL { "h }
        ::= { mioxPeerEntry 7 }

mioxPeerX121Address OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The X.25 address of the remote
 host mapped
            by this table entry.  A zero length string
            indicates the X.25 address is unspecified
            for use as the PLE default."
        DEFVAL { "h }
        ::= { mioxPeerEntry 8 }

-- Systems can claim conformance to this MIB without
-- implementing sets to mioxPeerX25CircuitId.
-- However systems that use PVCs with RFC1356
```

```
-- are encouraged to implement sets.
mioxPeerX25CircuitId OBJECT-TYPE
      SYNTAX  InstancePointer
      ACCESS  read-write
      STATUS  mandatory
      DESCRIPTION
            "This object identifies the instance of the
            index for the X.25 circuit open to the peer
            mapped by this table entry.  The well known
            value {0 0} indicates no connection
            currently active.  For multiple connections,
            this identifies the index of a multiplexing
            table entry for the connections.  This can
            only be written to configure
 use of PVCs
            which means the identified circuit table
            entry for a write must be a PVC."
      DEFVAL { {0 0} }
      ::= { mioxPeerEntry 9 }

mioxPeerDescr   OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      DESCRIPTION
            "This object returns any identification
            information about the peer.  An agent may
            supply the comment information found in the
            configuration file entry for this peer.  A
            zero length string indicates no information
            available."
      DEFVAL { "h }
      ::= { mioxPeerEntry 10 }



-- ############################################################
--            Peer Encapsulation Table
-- ############################################################

mioxPeerEncTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF MioxPeerEncEntry
      ACCESS  not-accessible
      STATUS
  mandatory
      DESCRIPTION
            "This table contains the list of
            encapsulations used to communicate with a
```

```
            peer.  This table has two indexes, the first
            identifies the peer, the second
            distinguishes encapsulation types.

            The first index identifies the corresponding
            entry in the miox PeerTable.  The second
            index gives the priority of the different
            encapsulations.

            The encapsulation types are ordered in
            priority order.  For calling a peer, the
            first entry (mioxPeerEncIndex of 1) is tried
            first.  If the call doesn't succeed because
            the remote host clears the call due to
            incompatible call user data, the next entry
            in the list is tried.  Each entry is tried
            until the list is exhausted.

            For answering a call, the
 encapsulation type
            requested by the peer must be found the list
            or the call will be refused.  If there are
            no entries in this table for a peer, all
            call requests from the peer will be refused.

            Objects in this table can only be set when
            the mioxPeerStatus object with the same
            index has a value of underCreation.  When
            that status object is set to invalid and
            deleted, the entry in this table with that
            peer index must also be deleted."
        ::= { mioxPeer 2 }

mioxPeerEncEntry OBJECT-TYPE
        SYNTAX  MioxPeerEncEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
                "Per connection information."
        INDEX { mioxPeerIndex, mioxPeerEncIndex}
        ::= { mioxPeerEncTable 1 }

MioxPeerEncEntry ::= SEQUENCE {
        mioxPeerEncIndex
                PositiveInteger,
        mioxPeerEncType
                 INTEGER
        }
```

```
mioxPeerEncIndex       OBJECT-TYPE
    SYNTAX  PositiveInteger
    ACCESS  read-only
    STATUS    mandatory
    DESCRIPTION
        "The second index in the table which
        distinguishes different encapsulation
        types."
    ::= { mioxPeerEncEntry 1 }

mioxPeerEncType OBJECT-TYPE
    SYNTAX  INTEGER (0..256)
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The value of the encapsulation type.  For
        IP encapsulation this will have a value of
        204 (hex CC).  For SNAP encapsulated
        packets, this will have a value of 128 (hex
        80).  For CLNP, ISO 8473, this will have a
        value of 129 (hex 81).  For ES-ES, ISO 9542,
        this will have a value of 130 (hex 82).  A
        value of 197 (hex C5) identifies the Blacker
        X.25 encapsulation.  A value
 of 0,
        identifies the Null encapsulation.

        This value can only be written when the
        mioxPeerStatus object with the same
        mioxPeerIndex has a value of underCreation.
        Setting this object to a value of 256
        deletes the entry.  When deleting an entry,
        all other entries in the mioxPeerEncTable
        with the same mioxPeerIndex and with an
        mioxPeerEncIndex higher then the deleted
        entry, will all have their mioxPeerEncIndex
        values decremented by one."
    ::= { mioxPeerEncEntry 2 }

-- ##################################################################

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB
No license file was found, but licenses were detected in source scan.
```

```
RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS
      mgmt, OBJECT-TYPE, NetworkAddress, IpAddress,
      Counter, Gauge, TimeTicks
         FROM RFC1155-SMI;

DisplayString ::=
         OCTET STRING

mib-2      OBJECT IDENTIFIER ::= { mgmt 1 }     -- MIB-II
         -- (same prefix as MIB-I)

system     OBJECT IDENTIFIER ::= { mib-2 1 }
interfaces OBJECT IDENTIFIER ::= { mib-2 2 }
at         OBJECT IDENTIFIER ::= { mib-2 3 }
ip         OBJECT IDENTIFIER ::= { mib-2 4 }
icmp       OBJECT IDENTIFIER ::= { mib-2 5 }
tcp        OBJECT IDENTIFIER ::= { mib-2 6 }
udp        OBJECT IDENTIFIER ::= { mib-2 7 }
egp        OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot    OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp       OBJECT IDENTIFIER ::= { mib-2 11 }


-- object types

-- the System group

sysDescr OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-only
       STATUS  mandatory
      ::= { system 1 }

sysObjectID OBJECT-TYPE
      SYNTAX  OBJECT IDENTIFIER
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 2 }

sysUpTime OBJECT-TYPE
      SYNTAX  TimeTicks
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 3 }
```

```
sysContact OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      ::= { system 4 }

sysName OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      ::= { system 5 }

sysLocation OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 6 }

sysServices OBJECT-TYPE
      SYNTAX  INTEGER (0..127)
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 7 }


-- the Interfaces group

ifNumber OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS
  mandatory
      ::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF IfEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { interfaces 2 }

ifEntry OBJECT-TYPE
      SYNTAX  IfEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifTable 1 }
```

```
IfEntry ::= SEQUENCE {
  ifIndex
     INTEGER,
  ifDescr
     DisplayString,
  ifType
     INTEGER,
  ifMtu
     INTEGER,
  ifSpeed
     Gauge,
  ifPhysAddress
     OCTET STRING,
  ifAdminStatus
     INTEGER,
  ifOperStatus
     INTEGER,
  ifLastChange
     TimeTicks,
  ifInOctets
     Counter,
  ifInUcastPkts
     Counter,
  ifInNUcastPkts
     Counter,
  ifInDiscards
     Counter,
  ifInErrors
     Counter,
  ifInUnknownProtos
     Counter,
  ifOutOctets
     Counter,
  ifOutUcastPkts
     Counter,
  ifOutNUcastPkts
     Counter,
  ifOutDiscards
     Counter,
  ifOutErrors
      Counter,
  ifOutQLen
     Gauge,
  ifSpecific
     OBJECT IDENTIFIER
}

ifIndex OBJECT-TYPE
```

```
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 1 }

ifDescr OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 2 }

ifType OBJECT-TYPE
    SYNTAX  INTEGER {
            other(1),           -- none of the
                                -- following
            regular1822(2),
            hdh1822(3),
            ddn-x25(4),
            rfc877-x25(5),
            ethernet-csmacd(6),
            iso88023-csmacd(7),
            iso88024-tokenBus(8),
            iso88025-tokenRing(9),
            iso88026-man(10),
            starLan(11),
            proteon-10Mbit(12),
            proteon-80Mbit(13),
            hyperchannel(14),
             fddi(15),
            lapb(16),
            sdlc(17),
            t1-carrier(18),
            cept(19),       -- european
                            --equivalent of T-1
            basicISDN(20),
            primaryISDN(21),
                            -- proprietary
                            -- serial
            propPointToPointSerial(22),
            terminalServer-asyncPort(23),
            softwareLoopback(24),
            eon(25),            -- CLNP over IP
            ethernet-3Mbit(26),
            nsip(27),           -- XNS over IP
            slip(28)            -- generic SLIP
        }
    ACCESS  read-only
    STATUS  mandatory
```

```
        ::= { ifEntry 3 }

ifMtu OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 4 }

ifSpeed
 OBJECT-TYPE
        SYNTAX  Gauge
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 5 }

ifPhysAddress OBJECT-TYPE
        SYNTAX  OCTET STRING
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE
        SYNTAX  INTEGER {
                    up(1),     -- ready to pass packets
                    down(2),
                    testing(3) -- in some test mode
                }
        ACCESS  read-write
        STATUS  mandatory
        ::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE
        SYNTAX  INTEGER {
                    up(1),     -- ready to pass packets
                    down(2),
                    testing(3) -- in some test mode
                }
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 8 }

ifLastChange OBJECT-TYPE
        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 9 }

ifInOctets OBJECT-TYPE
```

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 13 }

ifInErrors OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 14 }

ifInUnknownProtos OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ifEntry 17 }

ifOutNUcastPkts

```
 OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE
      SYNTAX  Gauge
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifEntry 21 }

ifSpecific OBJECT-TYPE
      SYNTAX  OBJECT IDENTIFIER
      ACCESS  read-only
      STATUS  mandatory
      ::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF AtEntry
      ACCESS  read-write
      STATUS  deprecated
      ::= { at 1 }

atEntry OBJECT-TYPE
      SYNTAX  AtEntry
      ACCESS  read-write
      STATUS  deprecated
      ::= { atTable 1 }

AtEntry ::=
```

```
 SEQUENCE {
   atIfIndex
      INTEGER,
   atPhysAddress
      OCTET STRING,
   atNetAddress
      NetworkAddress
}

atIfIndex OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  deprecated
      ::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
      SYNTAX  OCTET STRING
      ACCESS  read-write
      STATUS  deprecated
      ::= { atEntry 2 }

atNetAddress OBJECT-TYPE
      SYNTAX  NetworkAddress
      ACCESS  read-write
      STATUS  deprecated
      ::= { atEntry 3 }


-- the IP group

ipForwarding OBJECT-TYPE
      SYNTAX  INTEGER {
                gateway(1), -- entity forwards
                        -- datagrams
                host(2)     -- entity does NOT
                        -- forward datagrams
              }
      ACCESS  read-write
      STATUS  mandatory
      ::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::=
 { ip 2 }
```

```
ipInReceives OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 3 }

ipInHdrErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 4 }

ipInAddrErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 5 }

ipForwDatagrams OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 7 }

ipInDiscards OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 8 }

ipInDelivers OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ip 9 }

ipOutRequests OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= {
```

ip 10 }

ipOutDiscards OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 12 }

ipReasmTimeout OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
::= { ip 13 }

ipReasmReqds OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 14 }

ipReasmOKs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 15 }

ipReasmFails OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 16 }

ipFragOKs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { ip 17 }

ipFragFails OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory

```
        ::= { ip 18 }

ipFragCreates
 OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF IpAddrEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 20 }

ipAddrEntry OBJECT-TYPE
        SYNTAX  IpAddrEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {
  ipAdEntAddr
        IpAddress,
  ipAdEntIfIndex
        INTEGER,
  ipAdEntNetMask
        IpAddress,
  ipAdEntBcastAddr
        INTEGER,
  ipAdEntReasmMaxSize
        INTEGER (0..65535)
}

ipAdEntAddr OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-only
        STATUS  mandatory
        ::=  { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::=  { ipAddrEntry 2 }
```

```
ipAdEntNetMask OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-only
       STATUS  mandatory
      ::=  { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
      SYNTAX  INTEGER (0..65535)
      ACCESS  read-only
      STATUS  mandatory
      ::= { ipAddrEntry 5 }

-- the IP Routing table

ipRoutingTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF IpRouteEntry
      ACCESS  read-write
      STATUS  mandatory
      ::= { ip 21 }

ipRouteEntry OBJECT-TYPE
      SYNTAX  IpRouteEntry
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRoutingTable 1 }

IpRouteEntry ::= SEQUENCE {
  ipRouteDest
     IpAddress,
  ipRouteIfIndex
     INTEGER,
  ipRouteMetric1
     INTEGER,
  ipRouteMetric2
     INTEGER,
  ipRouteMetric3
     INTEGER,
  ipRouteMetric4
     INTEGER,
  ipRouteNextHop
     IpAddress,
  ipRouteType
```

```
      INTEGER,
  ipRouteProto
      INTEGER,
   ipRouteAge
      INTEGER,
  ipRouteMask
      IpAddress
}

ipRouteDest OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 1 }

ipRouteIfIndex  OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-write
```

```
        STATUS  mandatory

    ::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE
        SYNTAX  INTEGER {
                other(1),    -- none of the following

                invalid(2),  -- an invalidated route

                        -- route to directly
                direct(3),   -- connected
                        -- (sub-)network

                        -- route to a non-local
                remote(4)    -- host/network/
                        -- sub-network
           }
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE
        SYNTAX  INTEGER {
                other(1),    -- none of the following

                        -- non-protocol
                        -- information

                        --   e.g., manually
                local(2),    --   configured entries

                        -- set via a network
                netmgmt(3),
     --   management protocol

                        -- obtained via ICMP,
                icmp(4),     --   e.g., Redirect

                        -- the following are
                        -- gateway routing
                        -- protocols
                egp(5),
                ggp(6),
                hello(7),
                rip(8),
                is-is(9),
                es-is(10),
```

```
                ciscoIgrp(11),
                bbnSpfIgp(12),
                ospf(13),
                bgp(14)
            }
        ACCESS  read-only
        STATUS  mandatory
        ::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRouteEntry 11 }

-- the IP Address Translation tables

ipNetToMediaTable
 OBJECT-TYPE
        SYNTAX  SEQUENCE OF IpNetToMediaEntry
        ACCESS  read-write
        STATUS  mandatory
        ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE
        SYNTAX  IpNetToMediaEntry
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {
  ipNetToMediaIfIndex
      INTEGER,
  ipNetToMediaPhysAddress
      OCTET STRING,
  ipNetToMediaNetAddress
      IpAddress,
  ipNetToMediaType
      INTEGER
}

ipNetToMediaIfIndex OBJECT-TYPE
```

```
        SYNTAX  INTEGER
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE
        SYNTAX  OCTET STRING
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

      SYNTAX  INTEGER {
                other(1),   -- none of the following

                invalid(2), -- an invalidated mapping
                dynamic(3), -- connected (sub-)network

                static(4)
            }
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaEntry 4 }

-- the ICMP group

icmpInMsgs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 1 }

icmpInErrors OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
```

```
        STATUS  mandatory
        ::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 5 }

icmpInSrcQuenchs
 OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 6 }

icmpInRedirects OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 7 }

icmpInEchos OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE
        SYNTAX  Counter
```

ACCESS read-only
STATUS mandatory
::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory

::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 14 }

icmpOutErrors OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 20 }

icmpOutEchos OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 24 }

icmpOutAddrMasks OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 26 }

```
-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE
      SYNTAX  INTEGER {
                  other(1),    -- none of the following
                  constant(2), -- a constant rto
                  rsre(3),     -- MIL-STD-1778,
                               -- Appendix B

      vanj(4)      -- Van Jacobson's
                               -- algorithm
            }
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 2 }

tcpRtoMax OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 3 }

tcpMaxConn OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE
      SYNTAX  Counter
```

```
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 7 }

    tcpEstabResets OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only

       STATUS  mandatory
        ::= { tcp 8 }

    tcpCurrEstab OBJECT-TYPE
        SYNTAX  Gauge
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 9 }

    tcpInSegs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 10 }

    tcpOutSegs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 11 }

    tcpRetransSegs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 12 }

    -- the TCP connections table

    tcpConnTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF TcpConnEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 13 }

    tcpConnEntry OBJECT-TYPE
        SYNTAX  TcpConnEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnTable 1 }
```

```
TcpConnEntry ::= SEQUENCE {
  tcpConnState
     INTEGER,
  tcpConnLocalAddress
     IpAddress,
  tcpConnLocalPort
     INTEGER (0..65535),
   tcpConnRemAddress
     IpAddress,
  tcpConnRemPort
     INTEGER (0..65535)
}

tcpConnState OBJECT-TYPE
     SYNTAX  INTEGER {
                closed(1),
                listen(2),
                synSent(3),
                synReceived(4),
                established(5),
                finWait1(6),
                finWait2(7),
                closeWait(8),
                lastAck(9),
                closing(10),
                timeWait(11)
             }
     ACCESS  read-only
     STATUS  mandatory
     ::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE
     SYNTAX  IpAddress
     ACCESS  read-only
     STATUS  mandatory
     ::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
     SYNTAX  INTEGER (0..65535)
     ACCESS  read-only
     STATUS  mandatory
     ::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
     SYNTAX  IpAddress
     ACCESS  read-only
     STATUS  mandatory
```

```
        ::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
        SYNTAX  INTEGER (0..65535)
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnEntry 5 }

-- additional TCP variables

tcpInErrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 15 }


-- the UDP group

udpInDatagrams OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { udp 1 }

udpNoPorts OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { udp 2 }

udpInErrors OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { udp 4 }
```

```
-- the UDP listener table

udpTable
 OBJECT-TYPE
      SYNTAX  SEQUENCE OF UdpEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 5 }

udpEntry OBJECT-TYPE
      SYNTAX  UdpEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpTable 1 }

UdpEntry ::= SEQUENCE {
  udpLocalAddress
      IpAddress,
  udpLocalPort
      INTEGER (0..65535)
}

udpLocalAddress OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
      SYNTAX  INTEGER (0..65535)
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpEntry 2 }

-- the EGP group

egpInMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 1 }

egpInErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 2 }
```

```
egpOutMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
       ::= { egp 3 }

egpOutErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 4 }

-- the EGP Neighbor table

egpNeighTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF EgpNeighEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 5 }

egpNeighEntry OBJECT-TYPE
      SYNTAX  EgpNeighEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighTable 1 }

EgpNeighEntry ::= SEQUENCE {
  egpNeighState
     INTEGER,
  egpNeighAddr
     IpAddress,
  egpNeighAs
     INTEGER,
  egpNeighInMsgs
     Counter,
  egpNeighInErrs
     Counter,
  egpNeighOutMsgs
     Counter,
  egpNeighOutErrs
     Counter,
  egpNeighInErrMsgs
     Counter,
  egpNeighOutErrMsgs
     Counter,
  egpNeighStateUps
     Counter,
```

```
  egpNeighStateDowns
     Counter,
  egpNeighIntervalHello
     INTEGER,
  egpNeighIntervalPoll
     INTEGER,
  egpNeighMode
      INTEGER,
  egpNeighEventTrigger
     INTEGER
}

egpNeighState OBJECT-TYPE
     SYNTAX  INTEGER {
               idle(1),
               acquisition(2),
               down(3),
               up(4),
               cease(5)
             }
     ACCESS  read-only
     STATUS  mandatory
     ::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE
     SYNTAX  IpAddress
     ACCESS  read-only
     STATUS  mandatory
     ::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
     SYNTAX  INTEGER
     ACCESS  read-only
     STATUS  mandatory
     ::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
     SYNTAX  Counter
     ACCESS  read-only
     STATUS  mandatory
     ::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
     SYNTAX  Counter
     ACCESS  read-only
     STATUS  mandatory
     ::= { egpNeighEntry 5 }
```

```
egpNeighOutMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS
  mandatory
      ::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
```

```
    ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
      SYNTAX  INTEGER {
                active(1),
                passive(2)
              }
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
      SYNTAX  INTEGER {
                start(1),
                stop(2)
              }
      ACCESS  read-write
      STATUS  mandatory
      ::= { egpNeighEntry 15 }

-- additional EGP variables

egpAs OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 6 }


-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 1 }

snmpOutPkts OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 2 }

snmpInBadVersions OBJECT-TYPE
      SYNTAX  Counter
      ACCESS
```

read-only
STATUS mandatory
::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 6 }

snmpInBadTypes OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 7 }

snmpInTooBigs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 10 }

snmpInReadOnlys OBJECT-TYPE

```
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 11 }

snmpInGenErrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 14 }

snmpInGetRequests OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 15 }

snmpInGetNexts OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 16 }

snmpInSetRequests OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 17 }

snmpInGetResponses OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::=  { snmp 18 }

snmpInTraps OBJECT-TYPE
```

SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 22 }

snmpOutReadOnlys OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 23 }

snmpOutGenErrs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
SYNTAX Counter

ACCESS read-only
STATUS mandatory
::= { snmp 26 }

```
snmpOutSetRequests OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 28 }

snmpOutTraps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 29 }

snmpEnableAuthTraps OBJECT-TYPE
    SYNTAX  INTEGER {
            enabled(1),
            disabled(2)
          }
    ACCESS  read-write
    STATUS  mandatory
    ::=  { snmp 30 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-MIB
No license file was found, but licenses were detected in source scan.

```
DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS
    DisplayString, RowStatus,
    RowPointer, TruthValue,
    TEXTUAL-CONVENTION              FROM SNMPv2-TC
    Counter32, Gauge32, TimeTicks,
    OBJECT-TYPE, MODULE-IDENTITY,
    NOTIFICATION-TYPE, mib-2        FROM SNMPv2-SMI
    MODULE-COMPLIANCE, OBJECT-GROUP,
    NOTIFICATION-GROUP              FROM SNMPv2-CONF
    ifIndex                     FROM IF-MIB
    sdlcLSAddress                   FROM SNA-SDLC-MIB;

dlsw MODULE-IDENTITY
```

```
  LAST-UPDATED  "9606040900Z"
  ORGANIZATION  "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"
  CONTACT-INFO
            "David D. Chen
             IBM Corporation
             800 Park, Highway 54
             Research Triangle Park, NC 27709-9990
             Tel:    1 919 254 6182
             E-mail: dchen@vnet.ibm.com"
 DESCRIPTION

   "This MIB module contains objects to manage Data Link
      Switches."
::= { mib-2 46 }

dlswMIB        OBJECT IDENTIFIER ::= { dlsw 1 }
dlswDomains    OBJECT IDENTIFIER ::= { dlsw 2 }

-- ************************************************************************
-- Textual convention definitions
-- ************************************************************************

NBName ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
    "Represents a single qualified NetBIOS name, which can include
     `don't care' and `wildcard' characters to represent a number
     of real NetBIOS names.  If an individual character position in
     the qualified name contains a `?', the corresponding character
     position in a real NetBIOS name is a `don't care'.  If the
     qualified name ends in `*', the remainder of a real NetBIOS
     name is a `don't care'. `*' is only considered a wildcard if it
     appears at the end of a name."
  SYNTAX  OCTET STRING (SIZE
 (0..16))

MacAddressNC ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "1x:"
  STATUS       current
  DESCRIPTION
    "Represents an 802 MAC address represented in
     non-canonical format.  That is, the most significant
     bit will be transmitted first.  If this information
     is not available, the value is a zero length string."
  SYNTAX       OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION
  STATUS  current
```

```
  DESCRIPTION
    "Denotes a transport service address.
     For dlswTCPDomain, a TAddress is 4 octets long,
     containing the IP-address in network-byte order."
  SYNTAX  OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "Representing the location of an end station related
     to the managed DLSw node."
  SYNTAX  INTEGER  {
            other         (1),
            internal      (2),  -- local virtual MAC address
            remote        (3),  -- via
 DLSw partner
            local         (4)   -- locally attached
          }

DlcType ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "Representing the type of DLC of an end station, if
     applicable."
  SYNTAX  INTEGER  {
            other         (1),  -- not assigned yet
            na            (2),  -- not applicable
            llc           (3),  -- 802.2 Logical Link Control
            sdlc          (4),  -- SDLC
            qllc          (5)   -- QLLC
          }

LFSize  ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "The largest size of the INFO field (including DLC header,
     not including any MAC-level or framing octets).
     64 valid values as defined by the IEEE 802.1D
     Addendum are acceptable."
  SYNTAX  INTEGER  {
            lfs516(516), lfs635(635), lfs754(754), lfs873(873),
            lfs993(993), lfs1112(1112), lfs1231(1231),
            lfs1350(1350), lfs1470(1470),
 lfs1542(1542),
            lfs1615(1615), lfs1688(1688), lfs1761(1761),
            lfs1833(1833), lfs1906(1906), lfs1979(1979),
            lfs2052(2052), lfs2345(2345), lfs2638(2638),
            lfs2932(2932), lfs3225(3225), lfs3518(3518),
```

```
            lfs3812(3812), lfs4105(4105), lfs4399(4399),
            lfs4865(4865), lfs5331(5331), lfs5798(5798),
            lfs6264(6264), lfs6730(6730), lfs7197(7197),
            lfs7663(7663), lfs8130(8130), lfs8539(8539),
            lfs8949(8949), lfs9358(9358), lfs9768(9768),
            lfs10178(10178), lfs10587(10587), lfs10997(10997),
            lfs11407(11407), lfs12199(12199), lfs12992(12992),
            lfs13785(13785), lfs14578(14578), lfs15370(15370),
            lfs16163(16163), lfs16956(16956), lfs17749(17749),
            lfs20730(20730), lfs23711(23711), lfs26693(26693),
            lfs29674(29674), lfs32655(32655), lfs38618(38618),
            lfs41600(41600), lfs44591(44591),
 lfs47583(47583),
            lfs50575(50575), lfs53567(53567), lfs56559(56559),
            lfs59551(59551), lfs65535(65535)
          }

null OBJECT IDENTIFIER ::= { 0 0 }


-- ************************************************************************
-- DLSw Transport Domain definitions
-- ************************************************************************

-- DLSw over TCP
dlswTCPDomain  OBJECT IDENTIFIER ::= { dlswDomains 1 }
-- for an IP address of length 4:
--
-- octets   contents        encoding
--  1-4     IP-address      network-byte order
--
DlswTCPAddress ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "1d.1d.1d.1d"
  STATUS       current
  DESCRIPTION
          "Represents the IP address of a DLSw which uses
           TCP as a transport protocol."
  SYNTAX       OCTET STRING (SIZE (4))


-- ************************************************************************
-- DLSw MIB Definition
-- ************************************************************************

-- The
 DLSw MIB module contains an object part and a conformance part.
-- Object part is organized in the following groups:
-- (1) dlswNode      -  information about this DLSw
```

```
-- (2) dlswTConn     -  about adjacent DLSw partners
-- (3) dlswInterface -  about which interfaces DLSw is active on
-- (4) dlswDirectory -  about any directory of local/remote resources
-- (5) dlswCircuit   -  about established circuits.
-- (6) dlswSdlc      -  about SDLC data link switched devices

dlswNode        OBJECT IDENTIFIER ::= { dlswMIB 1 }
dlswTConn       OBJECT IDENTIFIER ::= { dlswMIB 2 }
dlswInterface   OBJECT IDENTIFIER ::= { dlswMIB 3 }
dlswDirectory   OBJECT IDENTIFIER ::= { dlswMIB 4 }
dlswCircuit     OBJECT IDENTIFIER ::= { dlswMIB 5 }
dlswSdlc        OBJECT IDENTIFIER ::= { dlswMIB 6 }  -- SDLC

-- ****************************************************************************
-- THE NODE GROUP
-- ****************************************************************************

-- ----------------------------------------------------------------
--
 DLSw Node Identity
-- ----------------------------------------------------------------
dlswNodeVersion  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (2))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This value identifies the particular version of the DLSw
     standard supported by this DLSw.  The first octet is a
     hexadecimal value representing the DLSw standard Version
     number of this DLSw, and the second is a hexadecimal value
     representing the DLSw standard Release number. This
     information is reported in DLSw Capabilities Exchange."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswNode 1 }

dlswNodeVendorID  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (3))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The value identifies the manufacturer's IEEE-assigned
     organizationally Unique Identifier (OUI) of this DLSw.
     This information
 is reported in DLSw Capabilities
     Exchange."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
```

```
  ::= { dlswNode 2 }

dlswNodeVersionString  OBJECT-TYPE
  SYNTAX     DisplayString
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This string gives product-specific information about
     this DLSw (e.g., product name, code release and fix level).
     This flows in Capabilities Exchange messages."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswNode 3 }

-- ---------------------------------------------------------------
-- DLSw Code Capability
-- ---------------------------------------------------------------
dlswNodeStdPacingSupport  OBJECT-TYPE
  SYNTAX     INTEGER  {
    none             (1),  -- does not support DLSw
                           -- Standard pacing scheme
    adaptiveRcvWindow (2),  -- the receive window size
                           -- varies
    fixedRcvWindow
   (3)   -- the receive window size
                           -- remains constant
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Circuit pacing, as defined in the DLSw Standard, allows each
     of the two DLSw nodes on a circuit to control the amount
     of data the other is permitted to send to them.  This object
     reflects the level of support the DLSw node has for this
     protocol.  (1) means the node has no support for the standard
     circuit pacing flows;  it may use RFC 1434+ methods only, or
     a proprietary flow control scheme.  (2) means the node supports
     the standard scheme and can vary the window sizes it grants as
     a data receiver.  (3) means the node supports the standard
     scheme but never varies its receive window size."
  ::= { dlswNode 4 }

-- ---------------------------------------------------------------
-- DLSw Node Operational Objects
-- ---------------------------------------------------------------
dlswNodeStatus
 OBJECT-TYPE
  SYNTAX     INTEGER  {
```

```
      active       (1),
      inactive     (2)
    }
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
      "The status of the DLSw part of the system.  Changing the
      value from active to inactive causes DLSw to take
      the following actions - (1) it disconnects all circuits
      through all DLSw partners, (2) it disconnects all
      transport connections to all DLSw partners, (3) it
      disconnects all local DLC connections, and (4) it stops
      processing all DLC connection set-up traffic.
      Since these are destructive actions, the user should
      query the circuit and transport connection tables in
      advance to understand the effect this action will have.
      Changing the value from inactive to active causes DLSw
      to come up in its initial state, i.e., transport
      connections established and ready to bring up circuits."
    ::= { dlswNode 5 }

dlswNodeUpTime  OBJECT-TYPE
    SYNTAX     TimeTicks
    UNITS      "hundredths of a second"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The amount of time (in hundredths of a second) since
      the DLSw portion of the system was last re-initialized.
      That is, if dlswState is in the active state,
      the time the dlswState entered the active state.
      It will remain zero if dlswState is in the
      inactive state."
    ::= { dlswNode 6 }

dlswNodeVirtualSegmentLFSize  OBJECT-TYPE
    SYNTAX     LFSize
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
      "The largest frame size (including DLC header and info field
      but not any MAC-level or framing octets) this DLSw can forward
      on any path through itself.  This object can represent any box-
      level frame size forwarding restriction (e.g., from the use
      of fixed-size buffers).  Some DLSw implementations will have
       no such restriction.

      This value will affect the LF size of circuits during circuit
```

```
      creation.  The LF size of an existing circuit can be found in
      the RIF (Routing Information Field)."
   DEFVAL  { lfs65535 }
   ::= { dlswNode 7 }

-- ..........................................................
-- NETBIOS Resources
-- ..........................................................

dlswNodeResourceNBExclusivity  OBJECT-TYPE
   SYNTAX     TruthValue
   MAX-ACCESS read-write
   STATUS     current
   DESCRIPTION
      "The value of true indicates that the NetBIOS Names
      configured in dlswDirNBTable are the only ones accessible
      via this DLSw.

      If a node supports sending run-time capabilities exchange
      messages, changes to this object should cause that action.
      It is up to the implementation exactly when to start the
      run-time capabilities exchange."
   ::= { dlswNode 8 }

-- ..........................................................
--
 MAC Address List
-- ..........................................................

dlswNodeResourceMacExclusivity  OBJECT-TYPE
   SYNTAX     TruthValue
   MAX-ACCESS read-write
   STATUS     current
   DESCRIPTION
      "The value of true indicates that the MAC addresses
      configured in the dlswDirMacTable are the only ones
      accessible via this DLSw.

      If a node supports sending run-time capabilities exchange
      messages, changes to this object should cause that action.
      It is up to the implementation exactly when to start the
      run-time capabilities exchange."
   ::= { dlswNode 9 }


-- ************************************************************************
-- TRANSPORT CONNECTION (aka: PARTNER DLSW)
-- ************************************************************************
```

```
-- ---------------------------------------------------------------

-- Transport Connection Statistics Objects
-- ---------------------------------------------------------------
dlswTConnStat
    OBJECT IDENTIFIER ::= { dlswTConn 1 }

dlswTConnStatActiveConnections  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of transport connections that are not in
      `disconnected' state."
  ::= { dlswTConnStat 1 }

dlswTConnStatCloseIdles  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times transport connections in this node
      exited the connected state with zero active circuits on
      the transport connection."
  ::= { dlswTConnStat 2 }

dlswTConnStatCloseBusys  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times transport connections in this node
      exited the connected state with some non-zero number
      of active circuits on the transport connection.  Normally
       this means the transport connection failed unexpectedly."
  ::= { dlswTConnStat 3 }

-- ---------------------------------------------------------------
-- Transport Connection Configuration Table
-- ---------------------------------------------------------------
dlswTConnConfigTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "This table defines the transport connections
      that will be initiated or accepted by this
```

```
      DLSw.  Structure of masks allows wildcard
      definition for a collection of transport
      connections by a conceptual row.  For a
      specific transport connection, there may
      be multiple of conceptual rows match the
      transport address.  The `best' match will
      the one to determine the characteristics
      of the transport connection."
   ::= { dlswTConn 2 }

dlswTConnConfigEntry  OBJECT-TYPE
   SYNTAX     DlswTConnConfigEntry
    MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
     "Each conceptual row defines a collection of
      transport connections."
   INDEX   { dlswTConnConfigIndex }
   ::= { dlswTConnConfigTable 1 }

DlswTConnConfigEntry ::= SEQUENCE {
   dlswTConnConfigIndex              INTEGER,
   dlswTConnConfigTDomain            OBJECT IDENTIFIER,
   dlswTConnConfigLocalTAddr         TAddress,
   dlswTConnConfigRemoteTAddr        TAddress,
   dlswTConnConfigLastModifyTime     TimeTicks,
   dlswTConnConfigEntryType          INTEGER,
   dlswTConnConfigGroupDefinition    RowPointer,
   dlswTConnConfigSetupType          INTEGER,
   dlswTConnConfigSapList            OCTET STRING,
   dlswTConnConfigAdvertiseMacNB     TruthValue,
   dlswTConnConfigInitCirRecvWndw    INTEGER,
   dlswTConnConfigOpens              Counter32,
   dlswTConnConfigRowStatus          RowStatus
   }

dlswTConnConfigIndex  OBJECT-TYPE
   SYNTAX     INTEGER (0..2147483647)
   MAX-ACCESS
 not-accessible
   STATUS     current
   DESCRIPTION
     "The index to the conceptual row of the table.
      Negative numbers are not allowed.  There
      are objects defined that point to conceptual
      rows of this table with this index value.
      Zero is used to denote that no corresponding
      row exists.
```

```
      Index values are assigned by the agent, and
      should not be reused but should continue to
      increase in value."
   ::= { dlswTConnConfigEntry 1 }

dlswTConnConfigTDomain  OBJECT-TYPE
   SYNTAX     OBJECT IDENTIFIER
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The object identifier which indicates the transport
      domain of this conceptual row."
   ::= { dlswTConnConfigEntry 2 }

dlswTConnConfigLocalTAddr  OBJECT-TYPE
   SYNTAX     TAddress
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The local transport address for this conceptual row
      of the transport connection
 definition."
   ::= { dlswTConnConfigEntry 3 }

dlswTConnConfigRemoteTAddr  OBJECT-TYPE
   SYNTAX     TAddress
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The remote transport address.  Together with
      dlswTConnConfigEntryType and dlswTConnConfigGroupDefinition,
      the object instance of this conceptual row identifies a
      collection of the transport connections that will be
      either initiated by this DLSw or initiated by a partner
      DLSw and accepted by this DLSw."
   ::= { dlswTConnConfigEntry 4 }

dlswTConnConfigLastModifyTime  OBJECT-TYPE
   SYNTAX     TimeTicks
   UNITS      "hundredths of a second"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The time (in hundredths of a second) since the value of
      any object in this conceptual row except for
      dlswTConnConfigOpens was last changed.  This value
      may be compared to dlswTConnOperConnectTime to
```

```
      determine whether
 values in this row are completely
      valid for a transport connection created using
      this row definition."
  ::= { dlswTConnConfigEntry 5 }

dlswTConnConfigEntryType  OBJECT-TYPE
  SYNTAX     INTEGER  {
      individual     (1),
      global         (2),
      group          (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The object instance signifies the type of entry in the
      associated conceptual row.  The value of `individual'
      means that the entry applies to a specific partner DLSw
      node as identified by dlswTConnConfigRemoteTAddr and
      dlswTConnConfigTDomain.  The value of `global'
      means that the entry applies to all partner DLSw nodes
      of the TDomain.  The value of 'group' means that the entry
      applies to a specific set of DLSw nodes in the TDomain.
      Any group definitions are enterprise-specific and are pointed
      to by dlswTConnConfigGroupDefinition.  In the
 cases of
      `global' and `group', the value in dlswTConnConfigRemoteTAddr
      may not have any significance."
  ::= { dlswTConnConfigEntry 6 }

dlswTConnConfigGroupDefinition OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "For conceptual rows of `individual' and `global' as
      specified in dlswTConnConfigEntryType, the instance
      of this object is  `0.0'.  For conceptual rows of
      `group', the instance points to the specific
      group definition."
  ::= { dlswTConnConfigEntry 7 }

dlswTConnConfigSetupType  OBJECT-TYPE

  SYNTAX     INTEGER  {
      other             (1),
      activePersistent   (2),
      activeOnDemand     (3),
```

```
      passive          (4),
      excluded         (5)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "This value of the instance of a conceptual row
      identifies the behavior of the collection of
      transport
  connections that this conceptual row
      defines.  The value of activePersistent, activeOnDemand
      and passive means this DLSw will accept any transport
      connections, initiated by partner DLSw nodes, which
      are defined by this conceptual row.  The value of
      activePersistent means this DLSw will also initiate
      the transport connections of this conceptual row and
      retry periodically if necessary.  The value of
      activeOnDemand means this DLSw will initiate a
      transport connection of this conceptual row, if
      there is a directory cache hits.  The value of
      other is implementation specific.  The value of exclude
      means that the specified node is not allowed to be
      a partner to this DLSw node.  To take a certain
      conceptual row definition out of service, a value of
      notInService for dlswTConnConfigRowStatus should be
      used."
    DEFVAL  { passive }
    ::= { dlswTConnConfigEntry 8
  }

dlswTConnConfigSapList  OBJECT-TYPE
    SYNTAX     OCTET STRING  (SIZE(16))
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The SAP list indicates which SAPs are advertised to
      the transport connection defined by this conceptual
      row.  Only SAPs with even numbers are represented,
      in the form of the most significant bit of the first
      octet representing the SAP 0, the next most significant
      bit representing the SAP 2, to the least significant
      bit of the last octet representing the SAP 254.  Data
      link switching is allowed for those SAPs which have
      one in its corresponding bit, not allowed otherwise.
      The whole SAP list has to be changed together.  Changing
      the SAP list affects only new circuit establishments
      and has no effect on established circuits.
```

This list can be used to restrict specific partners
from knowing about all the SAPs used by DLSw on all its

interfaces (these are represented in dlswIfSapList for
each interface). For instance, one may want to run NetBIOS
with some partners but not others.

If a node supports sending run-time capabilities exchange
messages, changes to this object should cause that action.
When to start the run-time capabilities exchange is
implementation-specific.
The DEFVAL below indicates support for SAPs 0, 4, 8, and C."
DEFVAL { 'AA000000000000000000000000000000'H }
::= { dlswTConnConfigEntry 9 }

dlswTConnConfigAdvertiseMacNB OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The value of true indicates that any defined local MAC
addresses and NetBIOS names will be advertised to a
partner node via initial and (if supported) run-time
capabilities exchange messages. The DLSw node should send
the appropriate exclusivity control vector to accompany
each list it sends, or to represent that the node is
explicitly configured to have a null list.

The value of false indicates that the DLSw node should not
send a MAC address list or NetBIOS name list, and should
also not send their corresponding exclusivity control
vectors."
DEFVAL { true }
::= { dlswTConnConfigEntry 10 }

dlswTConnConfigInitCirRecvWndw OBJECT-TYPE
SYNTAX INTEGER (0..65535)
UNITS "SSP messages"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The initial circuit receive pacing window size, in the unit
of SSP messages, to be used for future transport connections
activated using this table row. The managed node sends this
value as its initial receive pacing window in its initial
capabilities exchange message. Changing this value does not
affect the initial circuit receive pacing window size of
currently active

```
 transport connections.  If the standard window
      pacing scheme is not supported, the value is zero.

      A larger receive window value may be appropriate for partners
      that are reachable only via physical paths that have longer
      network delays."
  DEFVAL  { 1 }
  ::= { dlswTConnConfigEntry 11 }

dlswTConnConfigOpens  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Number of times transport connections entered
     connected state according to the definition of
     this conceptual row."
  ::= { dlswTConnConfigEntry 12 }

dlswTConnConfigRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by the manager to create
     or delete the row entry in the dlswTConnConfigTable
     following the RowStatus textual convention.  The value
     of notInService will be used to take a conceptual
     row
 definition out of use."
  ::= { dlswTConnConfigEntry 13 }

-- ---------------------------------------------------------------
-- Transport Connection Operation Table
-- ---------------------------------------------------------------
-- (1) At most one transport connection can be connected between
--     this DLSw and one of its DLSw partners at a given time.
-- (2) Multiple transport types are supported.
-- (3) Since the entries may be reused, dlswTConnOperEntryTime
--     needs to be consulted for the possibility of counter reset.
-- ---------------------------------------------------------------

dlswTConnOperTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "A list of transport connections.   It is optional but
```

```
      desirable for the agent to keep an entry for some
      period of time after the transport connection is
      disconnected.  This allows the manager to capture
       additional useful information about the connection, in
      particular, statistical information and the cause of the
      disconnection."
  ::= { dlswTConn 3 }

dlswTConnOperEntry  OBJECT-TYPE
  SYNTAX     DlswTConnOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
  INDEX   { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
  ::= { dlswTConnOperTable 1 }

DlswTConnOperEntry ::= SEQUENCE {
  dlswTConnOperTDomain              OBJECT IDENTIFIER,
  dlswTConnOperLocalTAddr            TAddress,
  dlswTConnOperRemoteTAddr           TAddress,

  dlswTConnOperEntryTime            TimeTicks,
  dlswTConnOperConnectTime           TimeTicks,
  dlswTConnOperState                INTEGER,
  dlswTConnOperConfigIndex           INTEGER,
  dlswTConnOperFlowCntlMode          INTEGER,

  dlswTConnOperPartnerVersion        OCTET STRING,
  dlswTConnOperPartnerVendorID       OCTET STRING,
  dlswTConnOperPartnerVersionStr
     DisplayString,
  dlswTConnOperPartnerInitPacingWndw    INTEGER,

  dlswTConnOperPartnerSapList        OCTET STRING,
  dlswTConnOperPartnerNBExcl         TruthValue,
  dlswTConnOperPartnerMacExcl        TruthValue,
  dlswTConnOperPartnerNBInfo         INTEGER,
  dlswTConnOperPartnerMacInfo        INTEGER,

  dlswTConnOperDiscTime             TimeTicks,
  dlswTConnOperDiscReason            INTEGER,
  dlswTConnOperDiscActiveCir         INTEGER,

  dlswTConnOperInDataPkts           Counter32,
  dlswTConnOperOutDataPkts           Counter32,
  dlswTConnOperInDataOctets          Counter32,
  dlswTConnOperOutDataOctets         Counter32,
```

```
  dlswTConnOperInCntlPkts          Counter32,
  dlswTConnOperOutCntlPkts         Counter32,

  dlswTConnOperCURexSents          Counter32,
  dlswTConnOperICRexRcvds          Counter32,
  dlswTConnOperCURexRcvds          Counter32,
   dlswTConnOperICRexSents         Counter32,

  dlswTConnOperNQexSents           Counter32,
  dlswTConnOperNRexRcvds           Counter32,
  dlswTConnOperNQexRcvds           Counter32,
  dlswTConnOperNRexSents           Counter32,
  dlswTConnOperCirCreates          Counter32,
  dlswTConnOperCircuits            Gauge32
  }

dlswTConnOperTDomain  OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "The object identifier indicates the transport domain
      of this transport connection."
  ::= { dlswTConnOperEntry 1 }

dlswTConnOperLocalTAddr  OBJECT-TYPE
  SYNTAX     TAddress
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The local transport address for this transport connection.
      This value could be different from dlswTConnConfigLocalAddr,
      if the value of the latter were changed after this transport
      connection was
 established."
  ::= { dlswTConnOperEntry 2 }

dlswTConnOperRemoteTAddr  OBJECT-TYPE
  SYNTAX     TAddress
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "The remote transport address of this transport connection."
  ::= { dlswTConnOperEntry 3 }

dlswTConnOperEntryTime  OBJECT-TYPE
  SYNTAX     TimeTicks
```

```
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The amount of time (in hundredths of a second) since this
      transport connection conceptual row was created."
  ::= { dlswTConnOperEntry 4 }

-- ..........................................................
-- DLSw Transport Connection Operational Objects
-- ..........................................................

dlswTConnOperConnectTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The amount of time (in hundredths
 of a second) since this
      transport connection last entered the 'connected' state.
      A value of zero means this transport connection has never
      been established."
  ::= { dlswTConnOperEntry 5 }

dlswTConnOperState  OBJECT-TYPE
  SYNTAX     INTEGER  {
      connecting        (1),
      initCapExchange    (2),
      connected         (3),
      quiescing         (4),
      disconnecting      (5),
      disconnected       (6)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "The state of this transport connection.  The transport
      connection enters `connecting' state when DLSw makes
      a connection request to the transport layer.  Once initial
      Capabilities Exchange is sent, the transport connection
      enters enters `initCapExchange' state.  When partner
      capabilities have been determined and the transport
      connection is ready for sending CanUReach (CUR) messages,
      it moves
 to the `connected' state.  When DLSw is in the
      process of bringing down the connection, it is in the
      `disconnecting' state.  When the transport layer
```

```
      indicates one of its connections is disconnected, the
      transport connection moves to the `disconnected' state.

      Whereas all of the values will be returned in response
      to a management protocol retrieval operation, only two
      values may be specified in a management protocol set
      operation: `quiescing' and `disconnecting'.  Changing
      the value to `quiescing' prevents new circuits from being
      established, and will cause a transport disconnect when
      the last circuit on the connection goes away.  Changing
      the value to `disconnecting' will force off all circuits
      immediately and bring the connection to `disconnected'
      state."
  ::= { dlswTConnOperEntry 6 }

dlswTConnOperConfigIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS
 read-only
  STATUS     current
  DESCRIPTION
     "The value of dlswTConnConfigIndex of the dlswTConnConfigEntry
      that governs the configuration information used by this
      dlswTConnOperEntry.  The manager can therefore normally
      examine both configured and operational information
      for this transport connection.

      This value is zero if the corresponding dlswTConnConfigEntry
      was deleted after the creation of this dlswTConnOperEntry.
      If some fields in the former were changed but the conceptual
      row was not deleted, some configuration information may not
      be valid for this operational transport connection.  The
      manager can compare dlswTConnOperConnectTime and
      dlswTConnConfigLastModifyTime to determine if this condition
      exists."
  ::= { dlswTConnOperEntry 7 }

-- ..........................................................
-- Transport Connection Characteristics
-- ..........................................................

dlswTConnOperFlowCntlMode
 OBJECT-TYPE
  SYNTAX     INTEGER  {
     undetermined   (1),
     pacing         (2),   -- DLSw standard flow control
     other          (3)    -- non-DLSw standard flow control
  }
```

```
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The flow control mechanism in use on this transport connection.
     This value is undetermined (1) before the mode of flow control
     can be established on a new transport connection (i.e., after
     CapEx is sent but before Capex or other SSP control messages
     have been received).  Pacing (2) indicates that the standard
     RFC 1795 pacing mechanism is in use.  Other (3) may be either
     the RFC 1434+ xBusy mechanism operating to a back-level DLSw,
     or a vendor-specific flow control method.  Whether it is xBusy
     or not can be inferred from dlswTConnOperPartnerVersion."
  ::= { dlswTConnOperEntry 8 }

--
 ....................................................................

dlswTConnOperPartnerVersion  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 2))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This value identifies which version (first octet) and release
     (second octet) of the DLSw standard is supported by this
     partner DLSw. This information is obtained from a DLSw
     capabilities exchange message received from the partner DLSw.
     A string of zero length is returned before a Capabilities
     Exchange message is received, or if one is never received.
     A conceptual row with a dlswTConnOperState of `connected' but
     a zero length partner version indicates that the partner is
     a non-standard DLSw partner.

     If an implementation chooses to keep dlswTConnOperEntrys in
     the `disconnected' state, this value should remain unchanged."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"

  ::= { dlswTConnOperEntry 9 }

dlswTConnOperPartnerVendorID  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 3))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This value identifies the IEEE-assigned organizationally
     Unique Identifier (OUI) of the maker of this partner
     DLSw.  This information is obtained from a DLSw
     capabilities exchange message received from the partner DLSw.
```

```
      A string of zero length is returned before a Capabilities
      Exchange message is received, or if one is never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
  ::= { dlswTConnOperEntry 10 }

dlswTConnOperPartnerVersionStr  OBJECT-TYPE
  SYNTAX     DisplayString (SIZE (0..253))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This value identifies the particular product version (e.g.,
     product name, code level, fix
 level) of this partner DLSw.
     The format of the actual version string is vendor-specific.
     This information is obtained from a DLSw capabilities exchange
     message received from the partner DLSw.
     A string of zero length is returned before a Capabilities
     Exchange message is received, if one is never received, or
     if one is received but it does not contain a version string.
     If an implementation chooses to keep dlswTConnOperEntrys in
     the `disconnected' state, this value should remain unchanged."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswTConnOperEntry 11 }

dlswTConnOperPartnerInitPacingWndw  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The value of the partner initial receive pacing window.  This
     is our initial send pacing window for all new circuits on this
     transport connection, as modified and granted by
 the first flow
     control indication the partner sends on each circuit.
     This information is obtained from a DLSw capabilities exchange
     message received from the partner DLSw.
     A value of zero is returned before a Capabilities
     Exchange message is received, or if one is never received.

     If an implementation chooses to keep dlswTConnOperEntrys in
     the `disconnected' state, this value should remain unchanged."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswTConnOperEntry 12 }
```

```
-- ..................................................................

dlswTConnOperPartnerSapList  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 16))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The Supported SAP List received in the capabilities
      exchange message from the partner DLSw.  This list has
      the same format described for dlswTConnConfigSapList.
      A string of zero length is
 returned before a Capabilities
      Exchange message is received, or if one is never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
  ::= { dlswTConnOperEntry 13 }

dlswTConnOperPartnerNBExcl  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of true signifies that the NetBIOS names received
      from this partner in the NetBIOS name list in its capabilities
      exchange message are the only NetBIOS names reachable by
      that partner.  `False' indicates that other NetBIOS names may
      be reachable.  `False' should be returned before a Capabilities
      Exchange message is received, if one is never received, or if
      one is received without a NB Name Exclusivity CV.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain
 unchanged."
  ::= { dlswTConnOperEntry 14 }

dlswTConnOperPartnerMacExcl  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of true signifies that the MAC addresses received
      from this partner in the MAC address list in its capabilities
      exchange message are the only MAC addresses reachable by
      that partner.  `False' indicates that other MAC addresses may
      be reachable.  `False' should be returned before a Capabilities
      Exchange message is received, if one is never received, or if
      one is received without a MAC Address Exclusivity CV.
```

```
      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
    ::= { dlswTConnOperEntry 15 }

dlswTConnOperPartnerNBInfo  OBJECT-TYPE
    SYNTAX     INTEGER  {
      none          (1),  -- none is kept
      partial       (2),  -- partial list is kept

      complete      (3),  -- complete list is kept
      notApplicable  (4)
    }
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "It is up to this DSLw whether to keep either none, some,
       or all of the NetBIOS name list that was received in
       the capabilities exchange message sent by this partner DLSw.
       This object identifies how much information was kept by
       this DLSw.  These names are stored as userConfigured
       remote entries in dlswDirNBTable.
       A value of (4), notApplicable, should be returned before
       a Capabilities Exchange message is received, or if one is
       never received.
       If an implementation chooses to keep dlswTConnOperEntrys in
       the `disconnected' state, this value should remain unchanged."
    ::= { dlswTConnOperEntry 16 }

dlswTConnOperPartnerMacInfo  OBJECT-TYPE
    SYNTAX     INTEGER  {
      none          (1),  -- none is kept
      partial       (2),  -- partial list is kept
       complete      (3),  -- complete list is kept
      notApplicable  (4)
    }
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "It is up to this DLSw whether to keep either none, some,
       or all of the MAC address list that was received in the
       capabilities exchange message sent by this partner DLSw.
       This object identifies how much information was kept by
       this DLSw.  These names are stored as userConfigured
       remote entries in dlswDirMACTable.
       A value of (4), notApplicable, should be returned before
       a Capabilities Exchange message is received, or if one is
       never received.
```

```
      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
   ::= { dlswTConnOperEntry 17 }

-- ..........................................................................
-- Information about the last disconnect of this transport connection.
--   These objects
 make sense only for implementations that keep
--   transport connection information around after disconnection.
-- ..........................................................................
dlswTConnOperDiscTime  OBJECT-TYPE
   SYNTAX     TimeTicks
   UNITS      "hundredths of a second"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The amount of time (in hundredths of a second) since the
      dlswTConnOperState last entered `disconnected' state."
   ::= { dlswTConnOperEntry 18 }

dlswTConnOperDiscReason  OBJECT-TYPE
   SYNTAX     INTEGER  {
      other             (1),
      capExFailed       (2),
      transportLayerDisc (3),
      operatorCommand    (4),
      lastCircuitDiscd   (5),
      protocolError      (6)
   }
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "This object signifies the reason that either prevented the
      transport connection from entering the connected state, or
      caused the transport
 connection to enter the disconnected
      state."
   ::= { dlswTConnOperEntry 19 }

dlswTConnOperDiscActiveCir  OBJECT-TYPE
   SYNTAX     INTEGER (0..2147483647)
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of circuits active (not in DISCONNECTED state)
      at the time the transport connection was last disconnected.
      This value is zero if the transport connection has never
```

```
      been connected."
  ::= { dlswTConnOperEntry 20 }

-- ..........................................................................
-- Transport Connection Statistics
-- (1) Traffic counts
-- ..........................................................................
dlswTConnOperInDataPkts  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "SSP messages"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of Switch-to-Switch Protocol (SSP) messages of
     type DGRMFRAME, DATAFRAME, or INFOFRAME received on this
     transport connection."
   ::= { dlswTConnOperEntry 21 }

dlswTConnOperOutDataPkts  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "SSP messages"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of Switch-to-Switch Protocol (SSP) messages of
     type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this
     transport connection."
  ::= { dlswTConnOperEntry 22 }

dlswTConnOperInDataOctets  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "octets"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number octets in Switch-to-Switch Protocol (SSP) messages
     of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this
     transport connection.  Each message is counted starting with
     the first octet following the SSP message header."
  ::= { dlswTConnOperEntry 23 }

dlswTConnOperOutDataOctets  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "octets"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

```
      "The number octets in Switch-to-Switch Protocol (SSP) messages
      of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this
      transport connection.  Each message is counted starting with
      the first octet following the SSP message header."
   ::= { dlswTConnOperEntry 24 }

dlswTConnOperInCntlPkts  OBJECT-TYPE
   SYNTAX     Counter32
   UNITS      "SSP messages"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of Switch-to-Switch Protocol (SSP) messages
      received on this transport connection which were not of
      type DGRMFRAME, DATAFRAME, or INFOFRAME."
   ::= { dlswTConnOperEntry 25 }

dlswTConnOperOutCntlPkts  OBJECT-TYPE
   SYNTAX     Counter32
   UNITS      "SSP messages"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of Switch-to-Switch Protocol (SSP) messages of
      transmitted on this transport connection which were not of
      type DGRMFRAME, DATAFRAME,
 or INFOFRAME."
   ::= { dlswTConnOperEntry 26 }

-- ..........................................................
-- (2) Directory activities (Explorer messages)
-- ..........................................................

dlswTConnOperCURexSents  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of CanUReach_ex messages sent on this transport
      connection."
   ::= { dlswTConnOperEntry 27 }

dlswTConnOperICRexRcvds  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of ICanReach_ex messages received on this transport
```

```
      connection."
  ::= { dlswTConnOperEntry 28 }

dlswTConnOperCURexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of CanUReach_ex messages received on this transport
     connection."
  ::= { dlswTConnOperEntry 29 }

dlswTConnOperICRexSents
 OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of ICanReach_ex messages sent on this transport
     connection."
  ::= { dlswTConnOperEntry 30 }

-- ..............................................................

dlswTConnOperNQexSents  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of NetBIOS_NQ_ex (NetBIOS Name Query-explorer)
     messages sent on this transport connection."
  ::= { dlswTConnOperEntry 31 }

dlswTConnOperNRexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of NETBIOS_NR_ex (NetBIOS Name Recognized-explorer)
     messages received on this transport connection."
  ::= { dlswTConnOperEntry 32 }

dlswTConnOperNQexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

```
      "The number of NETBIOS_NQ_ex messages received on this
      transport connection."
   ::= { dlswTConnOperEntry 33 }

dlswTConnOperNRexSents  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of NETBIOS_NR_ex messages sent on this transport
      connection."
   ::= { dlswTConnOperEntry 34 }

-- ..........................................................................
-- (3) Circuit activities on each transport connection
-- ..........................................................................
dlswTConnOperCirCreates  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of times that circuits entered `circuit_established'
      state (not counting transitions from `circuit_restart')."
   ::= { dlswTConnOperEntry 35 }

dlswTConnOperCircuits  OBJECT-TYPE
   SYNTAX     Gauge32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of currently active circuits on this transport
      connection, where `active' means not in `disconnected' state."
   ::= { dlswTConnOperEntry 36 }



-- ------------------------------------------------------------------
-- Transport Connection Specific
-- ------------------------------------------------------------------
dlswTConnSpecific OBJECT IDENTIFIER ::= { dlswTConn 4 }
dlswTConnTcp      OBJECT IDENTIFIER ::= { dlswTConnSpecific 1 }

-- ..........................................................................
-- TCP Transport Connection Specific -  Configuration
-- ..........................................................................
dlswTConnTcpConfigTable  OBJECT-TYPE
   SYNTAX     SEQUENCE OF DlswTConnTcpConfigEntry
   MAX-ACCESS not-accessible
   STATUS     current
```

```
  DESCRIPTION
    "This table defines the TCP transport connections that
     will be either initiated by or accepted by this DSLw.
     It augments the entries in dlswTConnConfigTable
 whose domain
     is dlswTCPDomain."
  ::= { dlswTConnTcp 1 }

dlswTConnTcpConfigEntry  OBJECT-TYPE
  SYNTAX     DlswTConnTcpConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Each conceptual row defines parameters that are
     specific to dlswTCPDomain transport connections."
  INDEX   { dlswTConnConfigIndex }
  ::= { dlswTConnTcpConfigTable 1 }

DlswTConnTcpConfigEntry ::= SEQUENCE {
  dlswTConnTcpConfigKeepAliveInt       INTEGER,
  dlswTConnTcpConfigTcpConnections     INTEGER,
  dlswTConnTcpConfigMaxSegmentSize     INTEGER
  }

dlswTConnTcpConfigKeepAliveInt  OBJECT-TYPE
  SYNTAX     INTEGER (0..1800)
  UNITS      "seconds"
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
     no traffic is flowing.  Zero signifies no keepAlive protocol.
     Changes take effect only for new TCP connections."
  DEFVAL  { 0 }
  ::= { dlswTConnTcpConfigEntry
 1 }

dlswTConnTcpConfigTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This is our preferred number of TCP connections within a
     TCP transport connection.  The actual number used is negotiated
     at capabilities exchange time. Changes take effect only
     for new transport connections."
  DEFVAL  { 2 }
  ::= { dlswTConnTcpConfigEntry 2 }
```

```
dlswTConnTcpConfigMaxSegmentSize  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  UNITS      "packets"
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This is the number of bytes that this node is
     willing to receive over the read TCP connection(s).
     Changes take effect for new transport connections."
  DEFVAL  { 4096 }
  ::= { dlswTConnTcpConfigEntry 3 }


-- ..........................................................
-- TCP Transport Connection Specific -  Operation
-- ..........................................................
dlswTConnTcpOperTable
 OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnTcpOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "A list of TCP transport connections.   It is optional
     but desirable for the agent to keep an entry for some
     period of time after the transport connection is
     disconnected.  This allows the manager to capture
     additional useful information about the connection, in
     particular, statistical information and the cause of the
     disconnection."
  ::= { dlswTConnTcp 2 }

dlswTConnTcpOperEntry  OBJECT-TYPE
  SYNTAX     DlswTConnTcpOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
  INDEX   { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
  ::= { dlswTConnTcpOperTable 1 }

DlswTConnTcpOperEntry ::= SEQUENCE {
  dlswTConnTcpOperKeepAliveInt            INTEGER,
  dlswTConnTcpOperPrefTcpConnections
     INTEGER,
  dlswTConnTcpOperTcpConnections          INTEGER
  }
```

```
dlswTConnTcpOperKeepAliveInt  OBJECT-TYPE
  SYNTAX     INTEGER (0..1800)
  UNITS      "seconds"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
     no traffic is flowing.  Zero signifies no keepAlive protocol is
     operating."
  ::= { dlswTConnTcpOperEntry 1 }

dlswTConnTcpOperPrefTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This is the number of TCP connections preferred by this DLSw
     partner, as received in its capabilities exchange message."
  ::= { dlswTConnTcpOperEntry 2 }


dlswTConnTcpOperTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This is the actual current number of TCP connections within
     this transport connection."
   ::= { dlswTConnTcpOperEntry 3 }

-- ****************************************************************
-- DLSW INTERFACE GROUP
-- ****************************************************************

dlswIfTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswIfEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The list of interfaces on which DLSw is active."
  ::= { dlswInterface 1 }

dlswIfEntry  OBJECT-TYPE
  SYNTAX     DlswIfEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
```

```
  INDEX   { ifIndex }
  ::= { dlswIfTable 1 }

DlswIfEntry ::= SEQUENCE {
  dlswIfRowStatus      RowStatus,
  dlswIfVirtualSegment INTEGER,
  dlswIfSapList        OCTET STRING
  }

dlswIfRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by the manager to create
     or delete the row entry in the dlswIfTable
     following the
 RowStatus textual convention."
  ::= { dlswIfEntry 1 }

dlswIfVirtualSegment  OBJECT-TYPE
  SYNTAX     INTEGER (0..4095 | 65535)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The segment number that uniquely identifies the virtual
     segment to which this DLSw interface is connected.
     Current source routing protocols limit this value to
     the range 0 - 4095. (The value 0 is used by some
     management applications for special test cases.)
     A value of 65535 signifies that no virtual segment
     is assigned to this interface.  For instance,
     in a non-source routing environment, segment number
     assignment is not required."
  DEFVAL { 65535 }
  ::= { dlswIfEntry 2 }

dlswIfSapList  OBJECT-TYPE
  SYNTAX     OCTET STRING  (SIZE(16))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The SAP list indicates which SAPs are allowed to be
     data link switched through this interface.
 This list
     has the same format described for dlswTConnConfigSapList.

     When changes to this object take effect is implementation-
```

```
      specific.  Turning off a particular SAP can destroy
      active circuits that are using that SAP.  An agent
      implementation may reject such changes until there are no
      active circuits if it so chooses.  In this case, it is up
      to the manager to close the circuits first, using
      dlswCircuitState.

      The DEFVAL below indicates support for SAPs 0, 4, 8, and C."
   DEFVAL  { 'AA000000000000000000000000000000'H }
   ::= { dlswIfEntry 3 }


-- ****************************************************************
-- DIRECTORY
-- Directory services caches the locations of MAC addresses
-- and NetBIOS names.  For resources which are attached via
-- local interfaces, the ifIndex may be cached, and for
-- resources which are reachable via a DLSw partner, the
-- transport address of the DLSw partner is cached.
--
 ****************************************************************

-- ----------------------------------------------------------------
-- Directory Related Statistical Objects
-- ----------------------------------------------------------------
dlswDirStat     OBJECT IDENTIFIER ::= { dlswDirectory 1 }

dlswDirMacEntries  OBJECT-TYPE
   SYNTAX     Gauge32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The current total number of entries in the dlswDirMacTable."
   ::= { dlswDirStat 1 }

dlswDirMacCacheHits  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The number of times a cache search for a particular MAC address
       resulted in success."
   ::= { dlswDirStat 2 }

dlswDirMacCacheMisses  OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     current
```

```
  DESCRIPTION
    "The number of times a cache search for a particular MAC address
     resulted in failure."
   ::= { dlswDirStat 3 }

dlswDirMacCacheNextIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The next value of dlswDirMacIndex to be assigned by
     the agent.  A retrieval of this object atomically reserves
     the returned value for use by the manager to create a row
     in dlswDirMacTable.  This makes it possible for the agent
     to control the index space of the MAC address cache, yet
     allows the manager to administratively create new rows."
  ::= { dlswDirStat 4 }

dlswDirNBEntries  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The current total number of entries in the dlswDirNBTable."
  ::= { dlswDirStat 5 }

dlswDirNBCacheHits  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular NetBIOS
     name resulted
 in success."
  ::= { dlswDirStat 6 }

dlswDirNBCacheMisses  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular NetBIOS
     name resulted in failure."
  ::= { dlswDirStat 7 }

dlswDirNBCacheNextIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
```

```
  STATUS     current
  DESCRIPTION
     "The next value of dlswDirNBIndex to be assigned by the
      agent.  A retrieval of this object atomically reserves
      the returned value for use by the manager to create
      a row in dlswDirNBTable.  This makes it possible for the
      agent to control the index space for the NetBIOS name
      cache, yet allows the manager to administratively
      create new rows."
  ::= { dlswDirStat 8 }

-- ---------------------------------------------------------------
-- Directory Cache
-- ---------------------------------------------------------------
dlswDirCache
    OBJECT IDENTIFIER ::= { dlswDirectory 2 }

-- .....................................................................
-- Directory for MAC Addresses.
-- All Possible combinations of values of these objects.
--
--     EntryType   LocationType       Location        Status
--  -------------- ------------ ------------------ --------------
--  userConfigured    local     ifEntry or 0.0     reachable, or
--                                                   notReachable, or
--                                                   unknown
--  userConfigured    remote    TConnConfigEntry   reachable, or
--                                                   notReachable, or
--                                                   unknown
--  partnerCapExMsg   remote    TConnOperEntry     unknown
--  dynamic           local     ifEntry or 0.0     reachable
--  dynamic           remote    TConnOperEntry     reachable
--
-- .....................................................................
dlswDirMacTable
  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirMacEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "This table contains locations of MAC addresses.
      They could be either verified or not verified,
      local or remote, and configured locally or learned
      from either Capabilities Exchange messages or
      directory searches."
  ::= { dlswDirCache 1 }

dlswDirMacEntry  OBJECT-TYPE
```

```
  SYNTAX     DlswDirMacEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Indexed by dlswDirMacIndex."
  INDEX   { dlswDirMacIndex }
  ::= { dlswDirMacTable 1 }

DlswDirMacEntry ::= SEQUENCE {
  dlswDirMacIndex         INTEGER,
  dlswDirMacMac           MacAddressNC,
  dlswDirMacMask          MacAddressNC,
  dlswDirMacEntryType     INTEGER,
  dlswDirMacLocationType  INTEGER,
  dlswDirMacLocation      RowPointer,
  dlswDirMacStatus        INTEGER,
  dlswDirMacLFSize
   LFSize,
  dlswDirMacRowStatus     RowStatus
  }

dlswDirMacIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Uniquely identifies a conceptual row of this table."
  ::= { dlswDirMacEntry 1 }

dlswDirMacMac  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address, together with the dlswDirMacMask,
     specifies a set of MAC addresses that are defined or
     discovered through an interface or partner DLSw nodes."
  ::= { dlswDirMacEntry 2 }

dlswDirMacMask  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address mask, together with the dlswDirMacMac,
     specifies a set of MAC addresses that are defined or
     discovered through an interface or partner DLSw nodes."
  DEFVAL { 'FFFFFFFFFFFF'H }
```

```
  ::= { dlswDirMacEntry 3 }

dlswDirMacEntryType
 OBJECT-TYPE
  SYNTAX     INTEGER  {
     other                (1),
     userConfiguredPublic     (2),
     userConfiguredPrivate    (3),
     partnerCapExMsg          (4),
     dynamic                  (5)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The cause of the creation of this conceptual row.
      It could be one of the three methods: (1) user
      configured, including via management protocol
      set operations, configuration file, command line
      or equivalent methods; (2) learned from the
      partner DLSw Capabilities Exchange messages;
      and (3) dynamic, e.g., learned from ICanReach
      messages, or LAN explorer frames.  Since only
      individual MAC addresses can be dynamically learned,
      dynamic entries will all have a mask of all FFs.

      The public versus private distinction for user-
      configured resources applies only to local resources
      (UC remote
 resources are private), and indicates
      whether that resource should be advertised in
      capabilities exchange messages sent by this node."
  DEFVAL { userConfiguredPublic }
  ::= { dlswDirMacEntry 4 }

dlswDirMacLocationType  OBJECT-TYPE
  SYNTAX     INTEGER  {
     other               (1),
     local               (2),
     remote               (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The location of the resource (or a collection of
      resources using a mask) of this conceptual row
      is either (1) local - the resource is reachable
      via an interface, or (2) remote - the resource
      is reachable via a partner DLSw node (or a set
```

```
      of partner DLSw nodes)."
    DEFVAL { local }
    ::= { dlswDirMacEntry 5 }

dlswDirMacLocation  OBJECT-TYPE
    SYNTAX     RowPointer
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "Points to either the ifEntry, dlswTConnConfigEntry,
       dlswTConnOperEntry, 0.0, or something that is implementation
       specific.  It identifies the location of the MAC address
       (or the collection of MAC addresses.)"
    DEFVAL { null }
    ::= { dlswDirMacEntry 6 }

dlswDirMacStatus  OBJECT-TYPE
    SYNTAX     INTEGER  {
       unknown              (1),
       reachable            (2),
       notReachable         (3)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "This object specifies whether DLSw currently believes
       the MAC address to be accessible at the specified location.
       The value `notReachable' allows a configured resource
       definition to be taken out of service when a search to
       that resource fails (avoiding a repeat of the search)."
    DEFVAL { unknown }
    ::= { dlswDirMacEntry 7 }

dlswDirMacLFSize  OBJECT-TYPE
    SYNTAX     LFSize
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The largest size of the MAC
   INFO field (LLC header and data)
       that a circuit to the MAC address can carry through this path."
    DEFVAL { lfs65535 }
    ::= { dlswDirMacEntry 8 }

dlswDirMacRowStatus  OBJECT-TYPE
    SYNTAX     RowStatus
    MAX-ACCESS read-create
    STATUS     current
```

```
  DESCRIPTION
    "This object is used by the manager to create
     or delete the row entry in the dlswDirMacTable
     following the RowStatus textual convention."
  ::= { dlswDirMacEntry 9 }

-- ...........................................................
-- Directory for NetBIOS Names
-- All Possible combinations of values of these objects.
--
--    EntryType   LocationType       Location        Status
-- --------------- ------------ ------------------ --------------
-- userConfigured    local     ifEntry or 0.0     reachable, or
--                                                 notReachable, or
--                                                 unknown
-- userConfigured    remote    TConnConfigEntry
  reachable, or
--                                                 notReachable, or
--                                                 unknown
-- partnerCapExMsg   remote    TConnOperEntry     unknown
-- dynamic           local     ifEntry or 0.0     reachable
-- dynamic           remote    TConnOperEntry     reachable
--
-- ...........................................................
dlswDirNBTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table contains locations of NetBIOS names.
     They could be either verified or not verified,
     local or remote, and configured locally or learned
     from either Capabilities Exchange messages or
     directory searches."
  ::= { dlswDirCache 2 }

dlswDirNBEntry  OBJECT-TYPE
  SYNTAX     DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Indexed by dlswDirNBIndex."
  INDEX   {
 dlswDirNBIndex }
  ::= { dlswDirNBTable 1 }

DlswDirNBEntry ::= SEQUENCE {
  dlswDirNBIndex          INTEGER,
```

```
  dlswDirNBName           NBName,
  dlswDirNBNameType       INTEGER,
  dlswDirNBEntryType      INTEGER,
  dlswDirNBLocationType   INTEGER,
  dlswDirNBLocation       RowPointer,
  dlswDirNBStatus         INTEGER,
  dlswDirNBLFSize         LFSize,
  dlswDirNBRowStatus      RowStatus
  }

dlswDirNBIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Uniquely identifies a conceptual row of this table."
  ::= { dlswDirNBEntry 1 }

dlswDirNBName  OBJECT-TYPE
  SYNTAX     NBName
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The NetBIOS name (including `any char' and `wildcard'
     characters) specifies a set of NetBIOS names that are
     defined or discovered through an interface or partner
     DLSw nodes."
  ::= { dlswDirNBEntry
 2 }

dlswDirNBNameType  OBJECT-TYPE
  SYNTAX     INTEGER  {
     unknown       (1),
     individual    (2),
     group         (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "Whether dlswDirNBName represents an (or a set of) individual
     or group NetBIOS name(s)."
  DEFVAL { unknown }
  ::= { dlswDirNBEntry 3 }

dlswDirNBEntryType  OBJECT-TYPE
  SYNTAX     INTEGER  {
     other                 (1),
     userConfiguredPublic     (2),
```

```
      userConfiguredPrivate    (3),
      partnerCapExMsg          (4),
      dynamic                  (5)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The cause of the creation of this conceptual row.
      It could be one of the three methods: (1) user
      configured, including via management protocol
      set operations, configuration file, command line,
      or equivalent methods; (2) learned from the
      partner DLSw Capabilities
 Exchange messages;
      and (3) dynamic, e.g., learned from ICanReach
      messages, or test frames.  Since only actual
      NetBIOS names can be dynamically learned, dynamic
      entries will not contain any char or wildcard
      characters.

      The public versus private distinction for user-
      configured resources applies only to local resources
      (UC remote resources are private), and indicates
      whether that resource should be advertised in
      capabilities exchange messages sent by this node."
    DEFVAL { userConfiguredPublic }
    ::= { dlswDirNBEntry 4 }

dlswDirNBLocationType  OBJECT-TYPE
    SYNTAX     INTEGER  {
      other              (1),
      local              (2),
      remote               (3)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The location of the resource (or a collection of resources
      using any char/wildcard characters) of this conceptual row
      is either
 (1) local - the resource is reachable via an
      interface, or (2) remote - the resource is reachable via a
      a partner DLSw node (or a set of partner DLSw nodes)."
    DEFVAL { local }
    ::= { dlswDirNBEntry 5 }

dlswDirNBLocation  OBJECT-TYPE
    SYNTAX     RowPointer
```

```
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "Points to either the ifEntry, dlswTConnConfigEntry,
     dlswTConnOperEntry, 0.0, or something that is implementation
     specific.  It identifies the location of the NetBIOS name
     or the set of NetBIOS names."
  DEFVAL { null }
  ::= { dlswDirNBEntry 6 }

dlswDirNBStatus  OBJECT-TYPE
  SYNTAX     INTEGER  {
     unknown             (1),
     reachable           (2),
     notReachable        (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object specifies whether DLSw currently believes
     the NetBIOS name to be accessible at the specified location.
      The value `notReachable' allows a configured resource
     definition to be taken out of service when a search to
     that resource fails (avoiding a repeat of the search)."
  DEFVAL { unknown }
  ::= { dlswDirNBEntry 7 }

dlswDirNBLFSize  OBJECT-TYPE
  SYNTAX     LFSize
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The largest size of the MAC INFO field (LLC header and data)
     that a circuit to the NB name can carry through this path."
  DEFVAL { lfs65535 }
  ::= { dlswDirNBEntry 8 }

dlswDirNBRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by manager to create
     or delete the row entry in the dlswDirNBTable
     following the RowStatus textual convention."
  ::= { dlswDirNBEntry 9 }
```

```
-- ---------------------------------------------------------------
-- Resource Locations
-- ---------------------------------------------------------------
dlswDirLocate
      OBJECT IDENTIFIER ::= { dlswDirectory 3 }

-- .....................................................................
-- Locate Entries in the dlswDirMacTable for a given MAC address
-- .....................................................................
dlswDirLocateMacTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirLocateMacEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "This table is used to retrieve all entries in the
      dlswDirMacTable that match a given MAC address,
      in the order of the best matched first, the
      second best matched second, and so on, till
      no more entries match the given MAC address."
  ::= { dlswDirLocate 1 }

dlswDirLocateMacEntry  OBJECT-TYPE
  SYNTAX     DlswDirLocateMacEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Indexed by dlswDirLocateMacMac and dlswDirLocateMacMatch.
      The first object is the MAC address of interest,
 and
      the second object is the order in the list of all
      entries that match the MAC address."
  INDEX   { dlswDirLocateMacMac, dlswDirLocateMacMatch }
  ::= { dlswDirLocateMacTable 1 }

DlswDirLocateMacEntry ::= SEQUENCE {
  dlswDirLocateMacMac           MacAddressNC,
  dlswDirLocateMacMatch         INTEGER,
  dlswDirLocateMacLocation      RowPointer
  }

dlswDirLocateMacMac  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "The MAC address to be located."
  ::= { dlswDirLocateMacEntry 1 }
```

```
dlswDirLocateMacMatch  OBJECT-TYPE
  SYNTAX     INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The order of the entries of dlswDirMacTable
     that match dlswDirLocateMacMac.  A value of
     one represents the entry that best matches the
     MAC address.  A value of two represents the second
     best matched entry, and so on."

 ::= { dlswDirLocateMacEntry 2 }

dlswDirLocateMacLocation  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Points to the dlswDirMacEntry."
  ::= { dlswDirLocateMacEntry 3 }

-- ..........................................................
-- Locate Entries in the dlswDirNBTable for a given NetBIOS name
-- ..........................................................
dlswDirLocateNBTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirLocateNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table is used to retrieve all entries in the
     dlswDirNBTable that match a given NetBIOS name,
     in the order of the best matched first, the
     second best matched second, and so on, till
     no more entries match the given NetBIOS name."
  ::= { dlswDirLocate 2 }

dlswDirLocateNBEntry  OBJECT-TYPE
  SYNTAX     DlswDirLocateNBEntry
  MAX-ACCESS not-accessible

  STATUS     current
  DESCRIPTION
    "Indexed by dlswDirLocateNBName and dlswDirLocateNBMatch.
     The first object is the NetBIOS name of interest, and
     the second object is the order in the list of all
     entries that match the NetBIOS name."
  INDEX   { dlswDirLocateNBName, dlswDirLocateNBMatch }
  ::= { dlswDirLocateNBTable 1 }
```

```
DlswDirLocateNBEntry ::= SEQUENCE {
  dlswDirLocateNBName          NBName,
  dlswDirLocateNBMatch         INTEGER,
  dlswDirLocateNBLocation      RowPointer
  }

dlswDirLocateNBName  OBJECT-TYPE
  SYNTAX     NBName
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The NetBIOS name to be located (no any char or wildcards)."
  ::= { dlswDirLocateNBEntry 1 }

dlswDirLocateNBMatch  OBJECT-TYPE
  SYNTAX     INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The order of the entries of dlswDirNBTable
     that match dlswDirLocateNBName.  A value of
      one represents the entry that best matches the
     NetBIOS name.  A value of two represents the second
     best matched entry, and so on."
  ::= { dlswDirLocateNBEntry 2 }

dlswDirLocateNBLocation  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Points to the dlswDirNBEntry."
  ::= { dlswDirLocateNBEntry 3 }


-- ****************************************************************************
-- CIRCUIT
-- A circuit is the end-to-end association of two DLSw entities
-- through one or two DLSw nodes.  It is the concatenation of
-- two "data links", optionally with an intervening transport
-- connection. The origin of the circuit is the end station that
-- initiates the circuit.  The target of the circuit is the end
-- station that receives the initiation.
-- ****************************************************************************

-- ----------------------------------------------------------------
-- Statistics Related to
```

```
 Circuits
-- ---------------------------------------------------------------
dlswCircuitStat      OBJECT IDENTIFIER ::= { dlswCircuit 1 }

dlswCircuitStatActives  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The current number of circuits in dlswCircuitTable that are
     not in the disconnected state."
  ::= { dlswCircuitStat 1 }

dlswCircuitStatCreates  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of entries ever added to dlswCircuitTable,
     or reactivated upon exiting `disconnected' state."
  ::= { dlswCircuitStat 2 }



-- ---------------------------------------------------------------
-- Circuit Table
--
-- This table is the DLSw entity's view of circuits.  There will be
-- a conceptual row in the table associated with each data link.
--
-- The chart below lists the various possible combinations of
-- origin and target MAC
 locations and the number of entries in
-- this Circuit Table:
--
--          number of       |    Origin End Station Location
--         entries in the    |---------------------------------------
--         Circuit Table     | internal     local       remote
--     ---------------------- |---------------------------------------
--     Target    | internal |     NA          2           1
--     End       | local    |     2           2           1
--     Station   | remote   |     1           1           NA
--     Location  |          |
--
--     NA: Not applicable
--
--  Note:
--  (a) IfIndex and RouteInfo are applied only if location is local.
--  (b) TDomain and TAddr are applied only if location is remote.
```

```
--
-- Most of statistics related to circuits can be collected
-- from LLC-2 Link Station Table.
-- --------------------------------------------------------------------
dlswCircuitTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS
    current
  DESCRIPTION
     "This table is the circuit representation in the DLSw
      entity. Virtual data links are used to represent any internal
      end stations.  There is a conceptual row associated with
      each data link.  Thus, for circuits without an intervening
      transport connection, there are two conceptual rows
      for each circuit.

      The table consists of the circuits being established,
      established, and as an implementation option, circuits that
      have been disconnected.  For circuits carried over
      transport connections, an entry is created after
      the CUR_cs was sent or received.  For circuits between
      two locally attached devices, or internal virtual MAC
      addresses, an entry is created when the equivalent of
      CUR_cs sent/received status is reached.

      End station 1 (S1) and End station 2 (S2) are used to
      represent the two end stations of the circuit.
      S1 is always
 an end station which is locally attached.
      S2 may be locally attached or remote.  If it is locally
      attached, the circuit will be represented by two rows indexed
      by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

      The table may be used to store the causes of disconnection of
      circuits.  It is recommended that the oldest disconnected
      circuit entry be removed from this table when the memory
      space of disconnected circuits is needed."
  ::= { dlswCircuit 2 }

dlswCircuitEntry  OBJECT-TYPE
  SYNTAX     DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     ""
  INDEX   { dlswCircuitS1Mac,
            dlswCircuitS1Sap,
```

```
        dlswCircuitS2Mac,
        dlswCircuitS2Sap }
  ::= { dlswCircuitTable 1 }

DlswCircuitEntry ::= SEQUENCE {
  dlswCircuitS1Mac            MacAddressNC,
  dlswCircuitS1Sap            OCTET STRING,
  dlswCircuitS1IfIndex        INTEGER,
   dlswCircuitS1DlcType        DlcType,
  dlswCircuitS1RouteInfo      OCTET STRING,
  dlswCircuitS1CircuitId      OCTET STRING,
  dlswCircuitS1Dlc            RowPointer,

  dlswCircuitS2Mac            MacAddressNC,
  dlswCircuitS2Sap            OCTET STRING,
  dlswCircuitS2Location       EndStationLocation,
  dlswCircuitS2TDomain        OBJECT IDENTIFIER,
  dlswCircuitS2TAddress       TAddress,
  dlswCircuitS2CircuitId      OCTET STRING,

  dlswCircuitOrigin           INTEGER,

  dlswCircuitEntryTime        TimeTicks,
  dlswCircuitStateTime        TimeTicks,
  dlswCircuitState            INTEGER,

  dlswCircuitPriority         INTEGER,

  dlswCircuitFCSendGrantedUnits   INTEGER,
  dlswCircuitFCSendCurrentWndw    INTEGER,
  dlswCircuitFCRecvGrantedUnits   INTEGER,
  dlswCircuitFCRecvCurrentWndw    INTEGER,
  dlswCircuitFCLargestRecvGranted Gauge32,
  dlswCircuitFCLargestSendGranted
 Gauge32,
  dlswCircuitFCHalveWndwSents     Counter32,
  dlswCircuitFCResetOpSents       Counter32,
  dlswCircuitFCHalveWndwRcvds     Counter32,
  dlswCircuitFCResetOpRcvds       Counter32,
  dlswCircuitDiscReasonLocal      INTEGER,
  dlswCircuitDiscReasonRemote     INTEGER,
  dlswCircuitDiscReasonRemoteData OCTET STRING
  }

-- ..........................................................
-- Information related to the End Station 1 (S1).
-- ..........................................................
dlswCircuitS1Mac  OBJECT-TYPE
```

```
  SYNTAX     MacAddressNC
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 1 }

dlswCircuitS1Sap  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(1))
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The SAP at End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 2 }

dlswCircuitS1IfIndex
 OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The ifEntry index of the local interface through which S1
     can be reached."
  ::= { dlswCircuitEntry 3 }

dlswCircuitS1DlcType  OBJECT-TYPE
  SYNTAX     DlcType
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The DLC protocol in use between the DLSw node and S1."
  ::= { dlswCircuitEntry 4 }

dlswCircuitS1RouteInfo  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0..30))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "If source-route bridging is in use between the DLSw
     node and S1, this is the routing information field
     describing the path between the two devices.
     Otherwise the value will be an OCTET STRING of
     zero length."
  ::= { dlswCircuitEntry 5 }

dlswCircuitS1CircuitId  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 8))
  MAX-ACCESS read-only
```

```
    STATUS     current
    DESCRIPTION
      "The Circuit ID assigned by this DLSw node to this circuit.
       The first four octets are the DLC port Id, and
       the second four octets are the Data Link Correlator.
       If the DLSw SSP was not used to establish this circuit,
       the value will be a string of zero length."
    ::= { dlswCircuitEntry 6 }

dlswCircuitS1Dlc  OBJECT-TYPE
    SYNTAX     RowPointer
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "Points to a conceptual row of the underlying DLC MIB,
       which could either be the standard MIBs (e.g., the SDLC),
       or an enterprise-specific DLC MIB."
    ::= { dlswCircuitEntry 7 }

-- ..........................................................
-- Information related to the End Station 2 (S2).
-- ..........................................................
dlswCircuitS2Mac  OBJECT-TYPE
    SYNTAX     MacAddressNC
    MAX-ACCESS not-accessible
    STATUS     current

   DESCRIPTION
      "The MAC Address of End Station 2 (S2) used for this circuit."
    ::= { dlswCircuitEntry 8 }

dlswCircuitS2Sap  OBJECT-TYPE
    SYNTAX     OCTET STRING (SIZE(1))
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
      "The SAP at End Station 2 (S2) used for this circuit."
    ::= { dlswCircuitEntry 9 }

dlswCircuitS2Location  OBJECT-TYPE
    SYNTAX     EndStationLocation
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The location of End Station 2 (S2).
       If the location of End Station 2 is local, the
       interface information will be available in the
       conceptual row whose S1 and S2 are the S2 and
```

```
      the S1 of this conceptual row, respectively."
   ::= { dlswCircuitEntry 10 }

dlswCircuitS2TDomain  OBJECT-TYPE
   SYNTAX     OBJECT IDENTIFIER
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "If the location of End Station 2 is remote,
      this value is the transport domain
 of the
      transport protocol the circuit is running
      over.  Otherwise, the value is 0.0."
   ::= { dlswCircuitEntry 11 }

dlswCircuitS2TAddress  OBJECT-TYPE
   SYNTAX     TAddress
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "If the location of End Station 2 is remote,
      this object contains the address of the partner
      DLSw, else it will be an OCTET STRING of zero length."
   ::= { dlswCircuitEntry 12 }

dlswCircuitS2CircuitId  OBJECT-TYPE
   SYNTAX     OCTET STRING (SIZE (0 | 8))
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The Circuit ID assigned to this circuit by the partner
      DLSw node.  The first four octets are the DLC port Id, and
      the second four octets are the Data Link Correlator.
      If the DLSw SSP was not used to establish this circuit,
      the value will be a string of zero length."
   ::= { dlswCircuitEntry 13 }

-- ..........................................................................
dlswCircuitOrigin
  OBJECT-TYPE
   SYNTAX     INTEGER  {
      s1           (1),
      s2           (2)
   }
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "This object specifies which of the two end stations
```

```
      initiated the establishment of this circuit."
  ::= { dlswCircuitEntry 14 }

-- ..............................................................
-- Operational information related to this circuit.
-- ..............................................................
dlswCircuitEntryTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The amount of time (in hundredths of a second) since this
     circuit table conceptual row was created."
  ::= { dlswCircuitEntry 15 }

dlswCircuitStateTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
   DESCRIPTION
     "The amount of time (in hundredths of a second) since this
      circuit entered the current state."
  ::= { dlswCircuitEntry 16 }

dlswCircuitState  OBJECT-TYPE
  SYNTAX     INTEGER  {
      disconnected          (1),
      circuitStart          (2),
      resolvePending        (3),
      circuitPending        (4),
      circuitEstablished    (5),
      connectPending        (6),
      contactPending        (7),
      connected             (8),
      disconnectPending     (9),
      haltPending           (10),
      haltPendingNoack      (11),
      circuitRestart        (12),
      restartPending        (13)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "The current state of this circuit.  The agent, implementation
     specific, may choose to keep entries for some period of time
     after circuit disconnect, so the manager can gather the time
```

```
      and cause of disconnection.

       While all of the specified values may be returned from a GET
      operation, the only SETable value is `disconnectPending'.
      When this value is set, DLSw should perform the appropriate
      action given its previous state (e.g., send HALT_DL if the
      state was `connected') to bring the circuit down to the
      `disconnected' state.  Both the partner DLSw and local end
      station(s) should be notified as appropriate.

      This MIB provides no facility to re-establish a disconnected
      circuit, because in DLSw this should be an end station-driven
      function."
  ::= { dlswCircuitEntry 17 }

dlswCircuitPriority  OBJECT-TYPE
  SYNTAX     INTEGER  {
      unsupported     (1),
      low             (2),
      medium          (3),
      high            (4),
      highest         (5)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The transmission priority of this circuit as understood by
      this
 DLSw node.  This value is determined by the two DLSw
      nodes at circuit startup time.  If this DLSw node does not
      support DLSw circuit priority, the value `unsupported' should
      be returned."
  ::= { dlswCircuitEntry 18 }

-- ..........................................................................
-- Pacing Objects:
-- These objects are applicable if DLSw is using the SSP circuit
-- pacing protocol to control the flow between the two data links
-- in this circuit.
-- ..........................................................................
dlswCircuitFCSendGrantedUnits  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of paced SSP messages that this DLSw is currently
      authorized to send on this circuit before it must stop and
      wait for an additional flow control indication from the
```

partner DLSw.

The value zero should be returned if this circuit is not
running
the DLSw pacing protocol."
::= { dlswCircuitEntry 19 }

dlswCircuitFCSendCurrentWndw OBJECT-TYPE
SYNTAX INTEGER (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current window size that this DLSw is using in its role
as a data sender. This is the value by which this DLSw would
increase the number of messages it is authorized to send, if
it were to receive a flow control indication with the bits
specifying `repeat window'.
The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits OBJECT-TYPE
SYNTAX INTEGER (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current number of paced SSP messages that this DLSw has
authorized the partner DLSw to send on this circuit before
the partner DLSw must stop and wait for an additional flow

control indication from this DLSw.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw OBJECT-TYPE
SYNTAX INTEGER (0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current window size that this DLSw is using in its role
as a data receiver. This is the number of additional paced
SSP messages that this DLSw would be authorizing its DLSw
partner to send, if this DLSw were to send a flow control
indication with the bits specifying `repeat window'.

The value zero should be returned if this circuit is not

running the DLSw pacing protocol."
::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The largest receive window size granted by this DLSw during

the current activation of this circuit. This is not the
largest number of messages granted at any time, but the
largest window size as represented by FCIND operator bits.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The largest send (with respect to this DLSw) window size
granted by the partner DLSw during the current activation of
this circuit.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of Halve Window operations this DLSw has sent on
this circuit, in its role as a data
receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current

```
  DESCRIPTION
    "The number of Reset Window operations this DLSw has sent on
     this circuit, in its role as a data receiver.

     The value zero should be returned if this circuit is not
     running the DLSw pacing protocol."
  ::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of Halve Window operations this DLSw has received on
     this circuit, in its role as a data sender.

     The value zero should be returned if this circuit is not
     running the DLSw pacing protocol."
  ::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds  OBJECT-TYPE
  SYNTAX     Counter32
   MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of Reset Window operations this DLSw has received on
     this circuit, in its role as a data sender.
     The value zero should be returned if this circuit is not
     running the DLSw pacing protocol."
  ::= { dlswCircuitEntry 28 }



-- ..........................................................................
-- Information about the circuit disconnection
-- ..........................................................................
dlswCircuitDiscReasonLocal  OBJECT-TYPE
  SYNTAX     INTEGER  {
     endStationDiscRcvd          (1),
     endStationDlcError          (2),
     protocolError               (3),
     operatorCommand             (4),
     haltDlRcvd                  (5),
     haltDlNoAckRcvd             (6),
     transportConnClosed         (7)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

```
      "The reason why this circuit was last
 disconnected, as seen
      by this DLSw node.

      This object is present only if the agent keeps circuit
      table entries around for some period after circuit disconnect."
  ::= { dlswCircuitEntry 29 }

dlswCircuitDiscReasonRemote  OBJECT-TYPE
  SYNTAX     INTEGER  {
      unknown                  (1),
      endStationDiscRcvd         (2),
      endStationDlcError         (3),
      protocolError              (4),
      operatorCommand            (5)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The generic reason code why this circuit was last
      disconnected, as reported by the DLSw partner in a HALT_DL
      or HALT_DL_NOACK.  If the partner does not send a reason
      code in these messages, or the DLSw implementation does
      not report receiving one, the value `unknown' is returned.

      This object is present only if the agent keeps circuit table
      entries around for some period after
 circuit disconnect."
  ::= { dlswCircuitEntry 30 }

dlswCircuitDiscReasonRemoteData  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 4))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "Implementation-specific data reported by the DLSw partner in
      a HALT_DL or HALT_DL_NOACK, to help specify how and why this
      circuit was last disconnected.  If the partner does not send
      this data in these messages, or the DLSw implementation does
      not report receiving it, a string of zero length is returned.

      This object is present only if the agent keeps circuit table
      entries around for some period after circuit disconnect."
  ::= { dlswCircuitEntry 31 }


-- ..........................................................................
-- Statistics related to this circuit.
```

```
-- All statistics are in LLC-2 Link Station Statistical Table.
-- All SDLC statistics are in SDLC MIB
-- ...................................................................


--
 ********************************************************************
-- DLSW SDLC EXTENSION
-- ********************************************************************
dlswSdlcLsEntries  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of entries in dlswSdlcLsTable."
  ::= { dlswSdlc 1 }

-- ...................................................................
dlswSdlcLsTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswSdlcLsEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The table defines the virtual MAC addresses for those
     SDLC link stations that participate in data link switching."
  ::= { dlswSdlc 2 }

dlswSdlcLsEntry  OBJECT-TYPE
  SYNTAX     DlswSdlcLsEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The index of this table is the ifIndex value for the
     SDLC port which owns this link station and the poll
     address of
 the particular SDLC link station."
  INDEX  { ifIndex, sdlcLSAddress }
  ::= { dlswSdlcLsTable 1 }

DlswSdlcLsEntry ::= SEQUENCE {
  dlswSdlcLsLocalMac          MacAddressNC,
  dlswSdlcLsLocalSap          OCTET STRING,
  dlswSdlcLsLocalIdBlock      DisplayString,
  dlswSdlcLsLocalIdNum        DisplayString,
  dlswSdlcLsRemoteMac         MacAddressNC,
  dlswSdlcLsRemoteSap         OCTET STRING,
  dlswSdlcLsRowStatus         RowStatus
  }
```

```
dlswSdlcLsLocalMac    OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The virtual MAC address used to represent the SDLC-attached
     link station to the rest of the DLSw network."
  ::= { dlswSdlcLsEntry 1 }

dlswSdlcLsLocalSap    OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(1))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The SAP used to represent this link station."
  ::= { dlswSdlcLsEntry 2 }

dlswSdlcLsLocalIdBlock OBJECT-TYPE
   SYNTAX     DisplayString  (SIZE (0 | 3))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The block number is the first three digits of the node_id,
     if available.  These 3 hexadecimal digits identify the
     product."
  DEFVAL { "H }
  ::= { dlswSdlcLsEntry 3 }

dlswSdlcLsLocalIdNum OBJECT-TYPE
  SYNTAX     DisplayString  (SIZE (0 | 5))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The ID number is the last 5 digits of the node_id, if
     available.  These 5 hexadecimal digits are
     administratively defined and combined with the 3 digit
     block number form the node_id.  This node_id is used to
     identify the local node and is included in SNA XIDs."
  DEFVAL { "H }
  ::= { dlswSdlcLsEntry 4 }

dlswSdlcLsRemoteMac    OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address to which DLSw should attempt to
```

```
 connect
      this link station. If this information is not available,
      a length of zero for this object should be returned."
  DEFVAL { "H }
  ::= { dlswSdlcLsEntry 5 }

dlswSdlcLsRemoteSap    OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 1))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The SAP of the remote station to which this link
     station should be connected.  If this information
     is not available, a length of zero for this object
     should be returned."
  DEFVAL { "H }
  ::= { dlswSdlcLsEntry 6 }

dlswSdlcLsRowStatus    OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by the manager to create
     or delete the row entry in the dlswSdlcLsTable
     following the RowStatus textual convention."
  ::= { dlswSdlcLsEntry 7 }


-- ****************************************************************************
-- TRAP GENERATION CONTROL
--
 ****************************************************************************
dlswTrapControl OBJECT IDENTIFIER  ::= { dlswNode 10}

dlswTrapCntlTConnPartnerReject  OBJECT-TYPE
  SYNTAX     INTEGER  {
     enabled     (1),
     disabled    (2),
     partial     (3)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to emit partner
     reject related traps.  With the value of `enabled'
     the DLSw will emit all partner reject related traps.
     With the value of `disabled' the DLSw will not emit
```

```
      any partner reject related traps.  With the value
      of `partial' the DLSw will only emits partner reject
      traps for CapEx reject.  The changes take effect
      immediately."
  ::= { dlswTrapControl 1 }

dlswTrapCntlTConnProtViolation  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to generate
     protocol-violation traps on the events such as
     window size violation.  The changes take effect
     immediately."
  ::= { dlswTrapControl 2 }

dlswTrapCntlTConn  OBJECT-TYPE
  SYNTAX     INTEGER {
     enabled     (1),
     disabled    (2),
     partial     (3)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to emit transport
     connection up and down traps.  With the value of `enabled'
     the DLSw will emit traps when connections enter `connected'
     and `disconnected' states.  With the value of `disabled'
     the DLSw will not emit traps when connections enter of
     `connected' and `disconnected' states.  With the value
     of `partial' the DLSw will only emits transport connection
     down traps when the connection is closed with busy.
     The changes take effect immediately."
  ::= { dlswTrapControl 3 }

dlswTrapCntlCircuit  OBJECT-TYPE
   SYNTAX     INTEGER {
     enabled     (1),
     disabled    (2),
     partial     (3)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to generate
     circuit up and down traps.  With the value of `enabled'
```

```
      the DLSw will emit traps when circuits enter `connected'
      and `disconnected' states.  With the value of `disabled'
      the DLSw will not emit traps when circuits enter of
      `connected' and `disconnected' states.  With the value
      of `partial' the DLSw will emit traps only for those
      circuits that are initiated by this DLSw, e.g.,
      originating the CUR_CS message.  The changes take effect
      immediately."
   ::= { dlswTrapControl 4 }

-- ****************************************************************
-- NOTIFICATIONS, i.e., TRAP DEFINITIONS
-- ****************************************************************
dlswTraps             OBJECT IDENTIFIER
 ::= { dlswMIB 0 }

-- ----------------------------------------------------------------
-- This section defines the well-known notifications sent by
-- DLSW agents.
-- Care must be taken to insure that no particular notification
-- is sent to a single receiving entity more often than once
-- every five seconds.
--
-- Traps includes:
-- (1) Partner rejected (capEx rejection, not in partner list, etc.)
-- (2) DLSw protocol violation (e.g., window size violation, etc.)
-- (3) Transport connection up/down

-- (4) Circuit up/down
-- ----------------------------------------------------------------
--

dlswTrapTConnPartnerReject NOTIFICATION-TYPE
   OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
   }
   STATUS     current
   DESCRIPTION
      "This trap is sent each time a transport connection
      is rejected by a partner DLSw during Capabilities
      Exchanges.  The emission of this trap is controlled
      by dlswTrapCntlTConnPartnerReject."
   ::= { dlswTraps
  1 }

dlswTrapTConnProtViolation NOTIFICATION-TYPE
   OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
   }
   STATUS     current
```

```
  DESCRIPTION
    "This trap is sent each time a protocol violation is
     detected for a transport connection.  The emission of this
     trap is controlled by dlswTrapCntlTConnProtViolation."
  ::= { dlswTraps 2 }

dlswTrapTConnUp NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a transport connection
     enters `connected' state.  The emission of this trap
     is controlled by dlswTrapCntlTConn."
  ::= { dlswTraps 3 }

dlswTrapTConnDown NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a transport connection
     enters `disconnected' state.  The emission of this trap
     is controlled by dlswTrapCntlTConn."
   ::= { dlswTraps 4 }

dlswTrapCircuitUp NOTIFICATION-TYPE
  OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
            dlswCircuitS2Mac, dlswCircuitS2Sap
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a circuit enters `connected'
     state.  The emission of this trap is controlled by
     dlswTrapCntlCircuit."
  ::= { dlswTraps 5 }

dlswTrapCircuitDown NOTIFICATION-TYPE
  OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
            dlswCircuitS2Mac, dlswCircuitS2Sap
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a circuit enters `disconnected'
     state.  The emission of this trap is controlled by
     dlswTrapCntlCircuit."
  ::= { dlswTraps 6 }
```

```
-- ****************************************************************
-- CONFORMANCE INFORMATION
-- ****************************************************************
dlswConformance       OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances
      OBJECT IDENTIFIER ::= { dlswConformance 1 }
dlswGroups           OBJECT IDENTIFIER ::= { dlswConformance 2 }

-- ----------------------------------------------------------------
-- COMPLIANCE STATEMENTS
-- ----------------------------------------------------------------

-- ................................................................
-- Core compliance for all DLSw entities
-- ................................................................
dlswCoreCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "The core compliance statement for all DLSw nodes."
  MODULE
    MANDATORY-GROUPS  {
          dlswNodeGroup,
          dlswTConnStatGroup,
          dlswTConnConfigGroup,
          dlswTConnOperGroup,
          dlswInterfaceGroup,
          dlswCircuitGroup,
          dlswCircuitStatGroup,
          dlswNotificationGroup }

    GROUP dlswNodeNBGroup
      DESCRIPTION

    "The DLSw NetBIOS Node group is mandatory only for
          those DLSw entities that implement NetBIOS."

    GROUP dlswTConnNBGroup
      DESCRIPTION
        "The DLSw NetBIOS Transport Connection group is
         mandatory only for those DLSw entities that
         implement NetBIOS."

    OBJECT  dlswNodeStatus
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."
```

OBJECT dlswNodeVirtualSegmentLFSize
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswNodeResourceNBExclusivity
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswNodeResourceMacExclusivity
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTrapCntlTConnPartnerReject
MIN-ACCESS
read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTrapCntlTConnProtViolation
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTrapCntlTConn
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."
OBJECT dlswTrapCntlCircuit
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigTDomain
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigLocalTAddr
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigRemoteTAddr
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigEntryType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigGroupDefinition
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigSetupType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigSapList
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigAdvertiseMacNB
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigInitCirRecvWndw
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is
not required."

OBJECT dlswTConnOperState
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswIfRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

```
        OBJECT  dlswIfVirtualSegment
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswIfSapList
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswCircuitState
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

    ::= { dlswCompliances 1 }

-- ..........................................................................
-- Compliance for all DLSw entities that provide TCP transport.
-- ..........................................................................
dlswTConnTcpCompliance MODULE-COMPLIANCE

    STATUS current
    DESCRIPTION
        "Compliance for DLSw nodes that use TCP as a
        transport connection protocol."
    MODULE
        MANDATORY-GROUPS  {
                dlswTConnTcpConfigGroup,
                dlswTConnTcpOperGroup }

        OBJECT  dlswTConnTcpConfigKeepAliveInt
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswTConnTcpConfigTcpConnections
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswTConnTcpConfigMaxSegmentSize
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

    ::= { dlswCompliances 2 }
```

```
-- ..................................................................
-- Compliance for all DLSw Entities that implement a directory
-- ..................................................................
dlswDirCompliance MODULE-COMPLIANCE
  STATUS current
   DESCRIPTION
     "Compliance for DLSw nodes that provide a directory
      function."
  MODULE
     MANDATORY-GROUPS  {
           dlswDirGroup }

     GROUP dlswDirNBGroup
        DESCRIPTION
          "The DLSw NetBIOS group is mandatory only for
           those DLSw entities that implement NetBIOS."

     OBJECT  dlswDirMacMac
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."

     OBJECT  dlswDirMacMask
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."

     OBJECT  dlswDirMacEntryType
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."
     OBJECT  dlswDirMacLocationType
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."

     OBJECT  dlswDirMacLocation
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

     OBJECT  dlswDirMacStatus
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."

     OBJECT  dlswDirMacLFSize
```

MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirMacRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBNameType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBEntryType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBLocationType
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT dlswDirNBLocation
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBLFSize
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswDirNBRowStatus
MIN-ACCESS read-only
DESCRIPTION

```
            "Write access is not required."

  ::= { dlswCompliances 3 }

-- ..........................................................................
-- Compliance for all DLSw entities that provide an ordered
-- list of directory entries that match a resource
-- ..........................................................................
dlswDirLocateCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that provide
 an ordered
     list of directory entries for a given resource."
  MODULE
     MANDATORY-GROUPS  {
          dlswDirLocateGroup }

     GROUP dlswDirLocateNBGroup
        DESCRIPTION
          "The DLSw NetBIOS group is mandatory only for
           those DLSw entities that implement NetBIOS."

  ::= { dlswCompliances 4 }

-- ..........................................................................
-- Compliance for all DLSw entities that support SDLC end stations
-- ..........................................................................
dlswSdlcCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that support SDLC."
  MODULE
     MANDATORY-GROUPS  {
          dlswSdlcGroup }

     OBJECT  dlswSdlcLsLocalMac
        MIN-ACCESS  read-only
        DESCRIPTION
          "Write access is not required."

     OBJECT  dlswSdlcLsLocalSap
        MIN-ACCESS  read-only
        DESCRIPTION
           "Write access is not required."

     OBJECT  dlswSdlcLsLocalIdBlock
        MIN-ACCESS  read-only
```

```
        DESCRIPTION
          "Write access is not required."

      OBJECT  dlswSdlcLsLocalIdNum
        MIN-ACCESS  read-only
        DESCRIPTION
          "Write access is not required."

      OBJECT  dlswSdlcLsRemoteMac
        MIN-ACCESS  read-only
        DESCRIPTION
          "Write access is not required."

      OBJECT  dlswSdlcLsRemoteSap
        MIN-ACCESS  read-only
        DESCRIPTION
          "Write access is not required."

      OBJECT  dlswSdlcLsRowStatus
        MIN-ACCESS  read-only
        DESCRIPTION
          "Write access is not required."

  ::= { dlswCompliances 5 }

-- ----------------------------------------------------------------
-- CONFORMANCE GROUPS
-- ----------------------------------------------------------------

-- ..............................................................
--
 Node Conformance Group
-- ..............................................................
dlswNodeGroup  OBJECT-GROUP
  OBJECTS  {
      dlswNodeVersion,
      dlswNodeVendorID,
      dlswNodeVersionString,
      dlswNodeStdPacingSupport,
      dlswNodeStatus,
      dlswNodeUpTime,
      dlswNodeVirtualSegmentLFSize,
      dlswNodeResourceMacExclusivity,
      dlswTrapCntlTConnPartnerReject,
      dlswTrapCntlTConnProtViolation,
      dlswTrapCntlTConn,
      dlswTrapCntlCircuit
      }
```

```
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw node general information."
  ::= { dlswGroups 1 }

-- ..........................................................................
dlswNodeNBGroup  OBJECT-GROUP
  OBJECTS  {
     dlswNodeResourceNBExclusivity
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw node general information
     specifically for nodes that support NetBIOS."
  ::=
 { dlswGroups 2 }

-- ..........................................................................
dlswTConnStatGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnStatActiveConnections,
     dlswTConnStatCloseIdles,
     dlswTConnStatCloseBusys
     }
  STATUS current
  DESCRIPTION
    "Conformance group for statistics for transport
     connections."
  ::= { dlswGroups 3 }

-- ..........................................................................
dlswTConnConfigGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnConfigTDomain,
     dlswTConnConfigLocalTAddr,
     dlswTConnConfigRemoteTAddr,
     dlswTConnConfigLastModifyTime,
     dlswTConnConfigEntryType,
     dlswTConnConfigGroupDefinition,
     dlswTConnConfigSetupType,
     dlswTConnConfigSapList,
     dlswTConnConfigAdvertiseMacNB,
     dlswTConnConfigInitCirRecvWndw,
     dlswTConnConfigOpens,
     dlswTConnConfigRowStatus
     }
  STATUS current
  DESCRIPTION
```

```
      "Conformance
 group for the configuration of
      transport connections."
  ::= { dlswGroups 4 }

-- ..........................................................................
dlswTConnOperGroup  OBJECT-GROUP
  OBJECTS  {
      dlswTConnOperLocalTAddr,
      dlswTConnOperEntryTime,
      dlswTConnOperConnectTime,
      dlswTConnOperState,
      dlswTConnOperConfigIndex,
      dlswTConnOperFlowCntlMode,
      dlswTConnOperPartnerVersion,
      dlswTConnOperPartnerVendorID,
      dlswTConnOperPartnerVersionStr,
      dlswTConnOperPartnerInitPacingWndw,
      dlswTConnOperPartnerSapList,
      dlswTConnOperPartnerMacExcl,
      dlswTConnOperPartnerMacInfo,
      dlswTConnOperDiscTime,
      dlswTConnOperDiscReason,
      dlswTConnOperDiscActiveCir,
      dlswTConnOperInDataPkts,
      dlswTConnOperOutDataPkts,
      dlswTConnOperInDataOctets,
      dlswTConnOperOutDataOctets,
      dlswTConnOperInCntlPkts,
      dlswTConnOperOutCntlPkts,
      dlswTConnOperCURexSents,
       dlswTConnOperICRexRcvds,
      dlswTConnOperCURexRcvds,
      dlswTConnOperICRexSents,
      dlswTConnOperCirCreates,
      dlswTConnOperCircuits
      }
  STATUS current
  DESCRIPTION
     "Conformance group for operation information for
      transport connections."
  ::= { dlswGroups 5 }
-- ..........................................................................
dlswTConnNBGroup  OBJECT-GROUP
  OBJECTS  {
      dlswTConnOperPartnerNBExcl,
      dlswTConnOperPartnerNBInfo,
      dlswTConnOperNQexSents,
```

```
        dlswTConnOperNRexRcvds,
        dlswTConnOperNQexRcvds,
        dlswTConnOperNRexSents
        }
    STATUS current
    DESCRIPTION
      "Conformance group for operation information for
       transport connections, specifically for nodes
       that support NetBIOS."
    ::= { dlswGroups 6 }

-- ..........................................................................
dlswTConnTcpConfigGroup  OBJECT-GROUP
    OBJECTS  {
        dlswTConnTcpConfigKeepAliveInt,
         dlswTConnTcpConfigTcpConnections,
        dlswTConnTcpConfigMaxSegmentSize
        }
    STATUS current
    DESCRIPTION
      "Conformance group for configuration information for
       transport connections using TCP."
    ::= { dlswGroups 7 }

-- ..........................................................................
dlswTConnTcpOperGroup  OBJECT-GROUP
    OBJECTS  {
        dlswTConnTcpOperKeepAliveInt,
        dlswTConnTcpOperPrefTcpConnections,
        dlswTConnTcpOperTcpConnections
        }
    STATUS current
    DESCRIPTION
      "Conformance group for operation information for
       transport connections using TCP."
    ::= { dlswGroups 8 }

-- ..........................................................................
dlswInterfaceGroup  OBJECT-GROUP
    OBJECTS  {
        dlswIfRowStatus,
        dlswIfVirtualSegment,
        dlswIfSapList
        }
    STATUS current
    DESCRIPTION
      "Conformance group for DLSw interfaces."
    ::= { dlswGroups
```

```
 9 }

-- ..........................................................
dlswDirGroup  OBJECT-GROUP
  OBJECTS  {
      dlswDirMacEntries,
      dlswDirMacCacheHits,
      dlswDirMacCacheMisses,
      dlswDirMacCacheNextIndex,
      dlswDirMacMac,
      dlswDirMacMask,
      dlswDirMacEntryType,
      dlswDirMacLocationType,
      dlswDirMacLocation,
      dlswDirMacStatus,
      dlswDirMacLFSize,
      dlswDirMacRowStatus
      }
  STATUS current
  DESCRIPTION
     "Conformance group for DLSw directory using MAC
      addresses."
  ::= { dlswGroups 10 }

-- ..........................................................
dlswDirNBGroup  OBJECT-GROUP
  OBJECTS  {
      dlswDirNBEntries,
      dlswDirNBCacheHits,
      dlswDirNBCacheMisses,
      dlswDirNBCacheNextIndex,
      dlswDirNBName,
      dlswDirNBNameType,
      dlswDirNBEntryType,
      dlswDirNBLocationType,
      dlswDirNBLocation,
      dlswDirNBStatus,
       dlswDirNBLFSize,
      dlswDirNBRowStatus
      }
  STATUS current
  DESCRIPTION
     "Conformance group for DLSw directory using NetBIOS
      names."
  ::= { dlswGroups 11 }

-- ..........................................................
dlswDirLocateGroup  OBJECT-GROUP
```

```
  OBJECTS  {
     dlswDirLocateMacLocation
     }
  STATUS current
  DESCRIPTION
    "Conformance group for a node that can return directory
     entry order for a given MAC address."
  ::= { dlswGroups 12 }

-- ..........................................................
dlswDirLocateNBGroup  OBJECT-GROUP
  OBJECTS  {
     dlswDirLocateNBLocation
     }
  STATUS current
  DESCRIPTION
    "Conformance group for a node that can return directory
     entry order for a given NetBIOS name."
  ::= { dlswGroups 13 }

-- ..........................................................
dlswCircuitStatGroup  OBJECT-GROUP
  OBJECTS  {
     dlswCircuitStatActives,
      dlswCircuitStatCreates
     }
  STATUS current
  DESCRIPTION
    "Conformance group for statistics about circuits."
  ::= { dlswGroups 14 }

-- ..........................................................
dlswCircuitGroup  OBJECT-GROUP
  OBJECTS  {
     dlswCircuitS1IfIndex,
     dlswCircuitS1DlcType,
     dlswCircuitS1RouteInfo,
     dlswCircuitS1CircuitId,
     dlswCircuitS1Dlc,
     dlswCircuitS2Location,
     dlswCircuitS2TDomain,
     dlswCircuitS2TAddress,
     dlswCircuitS2CircuitId,
     dlswCircuitOrigin,
     dlswCircuitEntryTime,
     dlswCircuitStateTime,
     dlswCircuitState,
     dlswCircuitPriority,
```

```
        dlswCircuitFCSendGrantedUnits,
        dlswCircuitFCSendCurrentWndw,
        dlswCircuitFCRecvGrantedUnits,
        dlswCircuitFCRecvCurrentWndw,
        dlswCircuitFCLargestRecvGranted,
        dlswCircuitFCLargestSendGranted,
        dlswCircuitFCHalveWndwSents,
        dlswCircuitFCResetOpSents,
         dlswCircuitFCHalveWndwRcvds,
        dlswCircuitFCResetOpRcvds,
        dlswCircuitDiscReasonLocal,
        dlswCircuitDiscReasonRemote,
        dlswCircuitDiscReasonRemoteData
        }
    STATUS current
    DESCRIPTION
      "Conformance group for DLSw circuits."
    ::= { dlswGroups 15 }

-- ..........................................................................
dlswSdlcGroup  OBJECT-GROUP
    OBJECTS  {
        dlswSdlcLsEntries,
        dlswSdlcLsLocalMac,
        dlswSdlcLsLocalSap,
        dlswSdlcLsLocalIdBlock,
        dlswSdlcLsLocalIdNum,
        dlswSdlcLsRemoteMac,
        dlswSdlcLsRemoteSap,
        dlswSdlcLsRowStatus
        }
    STATUS current
    DESCRIPTION
      "Conformance group for DLSw SDLC support."
    ::= { dlswGroups 16 }

-- ..........................................................................
dlswNotificationGroup  NOTIFICATION-GROUP
    NOTIFICATIONS  {
        dlswTrapTConnPartnerReject,
        dlswTrapTConnProtViolation,

       dlswTrapTConnUp,
        dlswTrapTConnDown,
        dlswTrapCircuitUp,
        dlswTrapCircuitDown
        }
    STATUS current
```

```
  DESCRIPTION
    "Conformance group for DLSw notifications."
  ::= { dlswGroups 17 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB
No license file was found, but licenses were detected in source scan.

```
SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY,
  OBJECT-TYPE,
  NOTIFICATION-TYPE,
  Counter32,
  Gauge32,
  TimeTicks,
  Unsigned32,


  mib-2
      FROM SNMPv2-SMI            -- RFC 2578

  RowStatus,
  TimeStamp,
  TruthValue
      FROM SNMPv2-TC             -- RFC 2579

  MODULE-COMPLIANCE,
  OBJECT-GROUP,
  NOTIFICATION-GROUP
      FROM SNMPv2-CONF           -- RFC 2580

  SnmpAdminString
      FROM SNMP-FRAMEWORK-MIB    -- RFC 3411

  SipTCTransportProtocol,
  SipTCMethodName,
  SipTCEntityRole,
  SipTCOptionTagHeaders
      FROM SIP-TC-MIB            -- RFC 4780

  applIndex
      FROM NETWORK-SERVICES-MIB  -- RFC 2788

  InetPortNumber
```

```
        FROM INET-ADDRESS-MIB;      -- RFC 4001

sipCommonMIB MODULE-IDENTITY
  LAST-UPDATED "200704200000Z"
  ORGANIZATION "IETF Session Initiation Protocol Working Group"
  CONTACT-INFO
          "SIP WG email: sip@ietf.org

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  DESCRIPTION
    "Session Initiation Protocol (SIP) Common MIB module.  This
     module defines objects that may be common to all SIP entities.

      SIP is an application-layer signaling protocol for creating,
     modifying and terminating multimedia sessions with one or more
     participants.  These sessions include Internet multimedia
     conferences and Internet telephone calls.  SIP is defined in
     RFC 3261 (June 2002).

     This MIB is defined for managing objects that are common to
     SIP User Agents (UAs), Proxy, Redirect, and Registrar servers.
     Objects specific to each of these entities MAY be managed using
     entity specific MIBs defined in other modules.

     Copyright (C) The IETF Trust (2007).  This version of
```

```
      this MIB module is part of RFC 4780; see the RFC itself for
      full legal notices."
   REVISION     "200704200000Z"
   DESCRIPTION
      "Initial version of the IETF SIP-COMMON-MIB module.  This
       version published as part of RFC 4780."
    ::= { mib-2 149 }

-- Top-Level Components of this MIB.
sipCommonMIBNotifications OBJECT IDENTIFIER
 ::= { sipCommonMIB 0 }
sipCommonMIBObjects       OBJECT IDENTIFIER ::= { sipCommonMIB 1 }
sipCommonMIBConformance   OBJECT IDENTIFIER ::= { sipCommonMIB 2 }

--
-- This MIB contains objects that are common to all SIP entities.
--

-- Common basic configuration
sipCommonCfgBase       OBJECT IDENTIFIER ::= { sipCommonMIBObjects 1 }

-- Protocol timer configuration
sipCommonCfgTimer      OBJECT IDENTIFIER ::= { sipCommonMIBObjects 2 }

-- SIP message summary statistics


sipCommonSummaryStats  OBJECT IDENTIFIER ::= { sipCommonMIBObjects 3 }

-- Per method statistics
sipCommonMethodStats   OBJECT IDENTIFIER ::= { sipCommonMIBObjects 4 }

-- Per Status code or status code class statistics
sipCommonStatusCode    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 5 }

-- Transaction statistics
sipCommonStatsTrans    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 6 }

-- Method retry statistics
sipCommonStatsRetry    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 7 }

-- Other statistics
sipCommonOtherStats
    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 8 }

-- Accessible-for-notify objects
sipCommonNotifObjects  OBJECT IDENTIFIER ::= { sipCommonMIBObjects 9 }
```

```
--
-- Common Configuration Objects
--
sipCommonCfgTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonCfgEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the common configuration objects applicable
     to all SIP entities."
  ::= { sipCommonCfgBase 1 }

sipCommonCfgEntry OBJECT-TYPE
  SYNTAX      SipCommonCfgEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of common configuration.

     Each row represents objects for a particular SIP entity
     instance present in this system.  applIndex is used to uniquely
     identify these instances of SIP entities and correlate them
     through the common framework of the NETWORK-SERVICES-MIB (RFC
     2788)."
  INDEX { applIndex }
  ::= { sipCommonCfgTable 1
 }

SipCommonCfgEntry ::= SEQUENCE {


     sipCommonCfgProtocolVersion      SnmpAdminString,
     sipCommonCfgServiceOperStatus    INTEGER,
     sipCommonCfgServiceStartTime     TimeTicks,
     sipCommonCfgServiceLastChange    TimeTicks,
     sipCommonCfgOrganization         SnmpAdminString,
     sipCommonCfgMaxTransactions      Unsigned32,
     sipCommonCfgServiceNotifEnable   BITS,
     sipCommonCfgEntityType           SipTCEntityRole
  }

sipCommonCfgProtocolVersion OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object will reflect the version of SIP supported by this
     SIP entity.  It will follow the same format as SIP version
```

```
      information contained in the SIP messages generated by this SIP
      entity.  For example, entities supporting SIP version 2 will
      return 'SIP/2.0' as dictated by the standard."
    REFERENCE
      "RFC 3261, Section 7.1"
    ::= { sipCommonCfgEntry
   1 }

  sipCommonCfgServiceOperStatus OBJECT-TYPE
    SYNTAX      INTEGER {
                  unknown(1),
                  up(2),
                  down(3),
                  congested(4),
                  restarting(5),
                  quiescing(6),
                  testing(7)
                }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object contains the current operational state of
      the SIP application.

      unknown    : The operational status cannot be determined
                   for some reason.
      up         : The application is operating normally and is
                   processing (receiving and possibly issuing) SIP
                   requests and responses.
      down       : The application is currently unable to process
                   SIP messages.
      congested  : The application is operational but no additional
                   inbound transactions can be accommodated at the
                   moment.
      restarting : The application is currently unavailable, but it
                   is in the process of restarting and will
                   presumably, soon be able to process SIP messages.
      quiescing  : The application is currently operational
                   but has been administratively put into
                   quiescence mode.  Additional inbound
                   transactions MAY be rejected.
      testing    : The application is currently in test mode
                   and MAY not be able to process SIP messages.

      The operational status values defined for this object are not
```

```
      based on any specific information contained in the SIP
      standard."
  ::= { sipCommonCfgEntry 2 }

sipCommonCfgServiceStartTime OBJECT-TYPE
  SYNTAX      TimeTicks
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of sysUpTime at the time the SIP entity was last
     started.  If
 started prior to the last re-initialization of the
     local network management subsystem, then this object contains a
     zero value."
  ::= { sipCommonCfgEntry 3 }

sipCommonCfgServiceLastChange OBJECT-TYPE
  SYNTAX      TimeTicks
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of sysUpTime at the time the SIP entity entered its
     current operational state.  If the current state was entered
     prior to the last re-initialization of the local network
     management subsystem, then this object contains a zero value."
  ::= { sipCommonCfgEntry 4 }

sipCommonCfgOrganization OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains the organization name that the SIP entity
     inserts into Organization headers of SIP messages processed by
     this system.  If the string is empty, no Organization header is
     to be generated."




  REFERENCE
    "RFC 3261, Section 20.25"
  ::= { sipCommonCfgEntry 5 }

sipCommonCfgMaxTransactions OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
    "This object indicates the maximum number of simultaneous
     transactions per second that the SIP entity can manage.  In
     general, the value of this object SHOULD reflect a level of
     transaction processing per second that is considered high
     enough to impact the system's CPU and/or memory resources to
     the point of deteriorating SIP call processing but not high
     enough to cause catastrophic system failure."
  ::= { sipCommonCfgEntry 6 }

sipCommonCfgServiceNotifEnable OBJECT-TYPE
  SYNTAX      BITS {
                sipCommonServiceColdStart(0),
                sipCommonServiceWarmStart(1),
                sipCommonServiceStatusChanged(2)
              }
  MAX-ACCESS  read-write
  STATUS      current
   DESCRIPTION
    "This object specifies which SIP service related notifications
     are enabled.  Each bit represents a specific notification.  If
     a bit has a value 1, the associated notification is enabled and
     will be generated by the SIP entity at the appropriate time.

     Support for these notifications is OPTIONAL: either none or all
     notification values are supported.  If an implementation does
     not support this object, it should return a 'noSuchObject'
     exception to an SNMP GET operation.  If notifications are
     supported, this object's default value SHOULD reflect
     sipCommonServiceColdStart and sipCommonServiceWarmStart enabled
     and sipCommonServiceStatusChanged disabled.

     This object value SHOULD persist across reboots."
  DEFVAL { { sipCommonServiceColdStart,
           sipCommonServiceWarmStart } }
  ::= { sipCommonCfgEntry 7 }

sipCommonCfgEntityType OBJECT-TYPE
  SYNTAX      SipTCEntityRole
   MAX-ACCESS  read-only



  STATUS      current
  DESCRIPTION
    "This object identifies the list of SIP entities to which this
     row is related.  It is defined as a bit map.  Each bit
     represents a type of SIP entity.  If a bit has value 1, the
```

```
      SIP entity represented by this row plays the role of this
      entity type.  If a bit has value 0, the SIP entity represented
      by this row does not act as this entity type.  Combinations
      of bits can be set when the SIP entity plays multiple SIP
      roles."
  ::= { sipCommonCfgEntry 8 }

--
-- Support for multiple ports
--
sipCommonPortTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonPortEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the list of ports that each SIP entity in
     this system is allowed to use.  These ports can be advertised
     using the Contact header in a REGISTER request or response."
  ::= {
 sipCommonCfgBase 2 }

sipCommonPortEntry OBJECT-TYPE
  SYNTAX      SipCommonPortEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Specification of a particular port.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonPort }
  ::= { sipCommonPortTable 1 }

SipCommonPortEntry ::= SEQUENCE {
     sipCommonPort               InetPortNumber,
     sipCommonPortTransportRcv   SipTCTransportProtocol
  }

sipCommonPort OBJECT-TYPE
  SYNTAX      InetPortNumber (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current



  DESCRIPTION
```

```
      "This object reflects a particular port that can be used by the
       SIP application."
    ::= { sipCommonPortEntry 1 }

sipCommonPortTransportRcv
 OBJECT-TYPE
    SYNTAX      SipTCTransportProtocol
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object will specify the transport protocol the SIP entity
       will use to receive SIP messages.

       This object is a bit map.  Each bit represents a transport
       protocol.  If a bit has value 1, then that transport protocol
       is currently being used.  If a bit has value 0, then that
       transport protocol is currently not being used."
    ::= { sipCommonPortEntry 2 }

--
-- Support for SIP option tags (SIP extensions).
-- SIP extensions MAY be supported or required by SIP entities.
--

sipCommonOptionTagTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonOptionTagEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "This table contains a list of the SIP option tags (SIP
       extensions) that are either required, supported, or
       unsupported by the SIP entity.  These option tags are
        used in the Require, Proxy-Require, Supported, and
       Unsupported header fields.

       Example: If a user agent client supports, and requires the
       server to support, reliability of provisional responses
       (RFC 3262), this table contains a row with the option tag string
       '100rel' in sipCommonOptionTag and the OCTET STRING value of
       '1010 0000' or '0xA0' in sipCommonOptionTagHeaderField.

       If a server does not support the required feature (indicated in
       a Require header to a UAS, or in a Proxy-Require to a Proxy
       Server), the server returns a 420 Bad Extension listing the
       feature in an Unsupported header.

       Normally, the list of such features supported by an entity is
       static (i.e., will not change over time)."
```

```
  REFERENCE
    "RFC 3261, Sections 19.2, 20.32, 20.29, 20.37, and 20.40"
  ::= { sipCommonCfgBase 3 }

sipCommonOptionTagEntry OBJECT-TYPE
  SYNTAX      SipCommonOptionTagEntry
  MAX-ACCESS
 not-accessible
  STATUS      current
  DESCRIPTION
    "A particular SIP option tag (extension) supported or
     unsupported by the SIP entity, and which may be supported or
     required by a peer.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through the
     common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonOptionTagIndex }
  ::= { sipCommonOptionTagTable 1 }

SipCommonOptionTagEntry ::= SEQUENCE {
     sipCommonOptionTagIndex       Unsigned32,
     sipCommonOptionTag            SnmpAdminString,
     sipCommonOptionTagHeaderField  SipTCOptionTagHeaders
  }

sipCommonOptionTagIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This object uniquely identifies a conceptual
 row in the table."
  ::= { sipCommonOptionTagEntry 1 }

sipCommonOptionTag OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object indicates the SIP option tag.  The option tag names
    are registered with IANA and available at http://www.iana.org."
  REFERENCE "RFC 3261, Section 27.1"
  ::= { sipCommonOptionTagEntry 2 }
```

```
sipCommonOptionTagHeaderField OBJECT-TYPE
  SYNTAX      SipTCOptionTagHeaders
  MAX-ACCESS  read-only
  STATUS      current



  DESCRIPTION
    "This object indicates whether the SIP option tag is supported
     (Supported header), unsupported (Unsupported header), or
     required (Require or Proxy-Require header) by the SIP entity.
     A SIP option tag may be both supported and required."
  ::= { sipCommonOptionTagEntry 3 }

--
-- Supported SIP Methods
--
sipCommonMethodSupportedTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonMethodSupportedEntry
   MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains a list of methods supported by each SIP
     entity in this system (see the standard set of SIP methods in
     Section 7.1 of RFC 3261).  Any additional methods that may be
     incorporated into the SIP protocol can be represented by this
     table without any requirement to update this MIB module.

     The table is informational in nature and conveys capabilities
     of the managed system to the SNMP Manager.

     From a protocol point of view, the list of methods advertised
     by the SIP entity in the Allow header (Section 20.5 of RFC
     3261) MUST be consistent with the methods reflected in this
     table."
::= { sipCommonCfgBase 4 }

sipCommonMethodSupportedEntry OBJECT-TYPE
  SYNTAX      SipCommonMethodSupportedEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A particular method supported by the SIP entity.

      Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
```

```
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
   INDEX { applIndex, sipCommonMethodSupportedIndex }
   ::= { sipCommonMethodSupportedTable 1 }

SipCommonMethodSupportedEntry ::= SEQUENCE {
      sipCommonMethodSupportedIndex     Unsigned32,
      sipCommonMethodSupportedName      SipTCMethodName
   }



sipCommonMethodSupportedIndex OBJECT-TYPE
   SYNTAX      Unsigned32 (1..4294967295)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This object uniquely identifies a conceptual row in the table
      and reflects an assigned number used to identify a specific
      SIP method.

      This identifier is suitable for referencing the associated
      method throughout this and other MIBs supported by this managed
       system."
   ::= { sipCommonMethodSupportedEntry 1 }

sipCommonMethodSupportedName OBJECT-TYPE
   SYNTAX      SipTCMethodName
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "This object reflects the supported method's name.  The method
      name MUST be all upper case (e.g., 'INVITE')."
::= { sipCommonMethodSupportedEntry 2 }

--
-- SIP Timer Configuration
--
sipCommonCfgTimerTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SipCommonCfgTimerEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table contains timer configuration objects applicable to
      SIP user agent and SIP stateful Proxy Server entities."
   ::= { sipCommonCfgTimer 1 }

sipCommonCfgTimerEntry OBJECT-TYPE
   SYNTAX      SipCommonCfgTimerEntry
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of timer configuration.

     Each row represents those objects for a particular SIP entity
     present
 in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788).
     The objects in this table entry SHOULD be non-volatile and
     their value SHOULD be kept at reboot."



  INDEX { applIndex }
  ::= { sipCommonCfgTimerTable 1 }

SipCommonCfgTimerEntry ::= SEQUENCE {
     sipCommonCfgTimerA             Unsigned32,
     sipCommonCfgTimerB             Unsigned32,
     sipCommonCfgTimerC             Unsigned32,
     sipCommonCfgTimerD             Unsigned32,
     sipCommonCfgTimerE             Unsigned32,
     sipCommonCfgTimerF             Unsigned32,
     sipCommonCfgTimerG             Unsigned32,
     sipCommonCfgTimerH             Unsigned32,
     sipCommonCfgTimerI             Unsigned32,
     sipCommonCfgTimerJ             Unsigned32,
     sipCommonCfgTimerK             Unsigned32,

  sipCommonCfgTimerT1            Unsigned32,
     sipCommonCfgTimerT2            Unsigned32,
     sipCommonCfgTimerT4            Unsigned32
  }

sipCommonCfgTimerA OBJECT-TYPE
  SYNTAX      Unsigned32 (100..1000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the initial value for the retransmit timer
     for the INVITE method.  The retransmit timer doubles after each
     retransmission, ensuring an exponential backoff in network
     traffic.  This object represents the initial time a SIP entity
     will wait to receive a provisional response to an INVITE before
     resending the INVITE request."
```

```
    REFERENCE
      "RFC 3261, Section 17.1.1.2"
    DEFVAL { 500 }
    ::= { sipCommonCfgTimerEntry 1 }

  sipCommonCfgTimerB OBJECT-TYPE
    SYNTAX      Unsigned32 (32000..300000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION

    "This object reflects the maximum time a SIP entity will wait to
       receive a final response to an INVITE.  The timer is started
       upon transmission of the initial INVITE request."
    REFERENCE
      "RFC 3261, Section 17.1.1.2"



    DEFVAL { 32000 }
  ::= { sipCommonCfgTimerEntry 2 }

  sipCommonCfgTimerC OBJECT-TYPE
    SYNTAX      Unsigned32 (180000..300000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP Proxy Server will
       wait to receive a provisional response to an INVITE.  The Timer
       C MUST be set for each client transaction when an INVITE
       request is proxied."
    REFERENCE
      "RFC 3261, Section 16.6"
    DEFVAL { 180000 }
    ::= { sipCommonCfgTimerEntry 3 }

  sipCommonCfgTimerD OBJECT-TYPE
    SYNTAX      Unsigned32 (0..300000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object
   reflects the amount of time that the server
       transaction can remain in the 'Completed' state when unreliable
       transports are used.  The default value MUST be equal to or
```

```
      greater than 32000 for UDP transport, and its value MUST be 0
      for TCP/SCTP transport."
    REFERENCE
      "RFC 3261, Section 17.1.1.2"
    DEFVAL { 32000 }
    ::= { sipCommonCfgTimerEntry 4 }

sipCommonCfgTimerE OBJECT-TYPE
    SYNTAX      Unsigned32 (100..1000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the initial value for the retransmit timer
      for a non-INVITE method while in 'Trying' state.  The
      retransmit timer doubles after each retransmission until it
      reaches T2 to ensure an exponential backoff in network traffic.
      This object represents the initial time a SIP entity will wait
      to receive a provisional response to the request before
      resending the non-INVITE
 request."
    REFERENCE



      "RFC 3261, Section 17.1.2.2"
    DEFVAL { 500 }
    ::= { sipCommonCfgTimerEntry 5 }

sipCommonCfgTimerF  OBJECT-TYPE
    SYNTAX      Unsigned32 (32000..300000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP entity will wait to
      receive a final response to a non-INVITE request.  The timer is
      started upon transmission of the initial request."
    REFERENCE
      "RFC 3261, Section 17.1.2.2"
    DEFVAL { 32000 }

    ::= { sipCommonCfgTimerEntry 6 }

sipCommonCfgTimerG  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..1000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
     "This object reflects the initial value for the retransmit timer
      for final responses to INVITE requests.  If timer G fires, the
      response is passed to the transport layer again for
      retransmission,
 and timer G is set to fire in MIN(2*T1, T2)
      seconds.  From then on, when timer G fires, the response is
      passed to the transport again for transmission, and timer G is
      reset with a value that doubles, unless that value exceeds T2,
      in which case, it is reset with the value of T2.  The default
      value MUST be T1 for UDP transport, and its value MUST be 0 for
      reliable transport like TCP/SCTP."
  REFERENCE
     "RFC 3261, Section 17.2.1"
  DEFVAL { 500 }
  ::= { sipCommonCfgTimerEntry 7 }

sipCommonCfgTimerH  OBJECT-TYPE
  SYNTAX      Unsigned32 (32000..300000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "This object reflects the maximum time a server will wait to
      receive an ACK before it abandons retransmitting the response.



      The timer is started upon entering the 'Completed' state."
  REFERENCE
     "RFC 3261, Section 17.2.1"
  DEFVAL { 32000 }
  ::=
 { sipCommonCfgTimerEntry 8 }

sipCommonCfgTimerI  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..10000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "This object reflects the maximum time a SIP entity will wait to
      receive additional ACK message retransmissions.

      The timer is started upon entering the 'Confirmed' state.  The
      default value MUST be T4 for UDP transport and its value MUST
      be 0 for reliable transport like TCP/SCTP."
```

```
    REFERENCE
      "RFC 3261, Section 17.2.1"
    DEFVAL { 5000 }
    ::= { sipCommonCfgTimerEntry 9 }

  sipCommonCfgTimerJ  OBJECT-TYPE
    SYNTAX      Unsigned32 (32000..300000)
    UNITS      "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP server will wait to
       receive retransmissions of non-INVITE requests.  The timer is
       started upon entering the 'Completed' state for non-INVITE
        transactions.  When timer J fires, the server MUST transition to
       the 'Terminated' state."
    REFERENCE
      "RFC 3261, Section 17.2.2"
    DEFVAL { 32000 }
    ::= { sipCommonCfgTimerEntry 10 }

  sipCommonCfgTimerK  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..10000)
    UNITS      "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP client will wait to
       receive retransmissions of responses to non-INVITE requests.
       The timer is started upon entering the 'Completed' state for



       non-INVITE transactions.  When timer K fires, the server MUST
       transition to the 'Terminated' state.  The default value MUST
       be T4 for UDP transport, and its value MUST be 0 for reliable
       transport like TCP/SCTP."
    REFERENCE
      "RFC 3261, Section 17.1.2.2"
    DEFVAL { 5000 }
    ::= { sipCommonCfgTimerEntry 11 }

  sipCommonCfgTimerT1  OBJECT-TYPE
    SYNTAX
   Unsigned32 (200..10000)
    UNITS      "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
      "This object reflects the T1 timer for a SIP entity.  T1 is an
       estimate of the round-trip time (RTT) between the client and
       server transactions."
    REFERENCE
      "RFC 3261, Section 17"
    DEFVAL { 500 }
    ::= { sipCommonCfgTimerEntry 12 }

  sipCommonCfgTimerT2  OBJECT-TYPE
    SYNTAX      Unsigned32 (200..10000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the T2 timer for a SIP entity.  T2 is the
       maximum retransmit interval for non-INVITE requests and INVITE
       responses.  It's used in various parts of the protocol to reset
       other Timer* objects to this value."
    REFERENCE
      "RFC 3261, Section 17"
    DEFVAL { 4000 }
    ::= { sipCommonCfgTimerEntry 13 }

  sipCommonCfgTimerT4  OBJECT-TYPE
    SYNTAX      Unsigned32 (200..10000)
    UNITS
      "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the T4 timer for a SIP entity.  T4 is the
       maximum duration a message will remain in the network.  It
       represents the amount of time the network will take to clear
       messages between client and server transactions.  It's used in



       various parts of the protocol to reset other Timer* objects to
       this value."
    REFERENCE
      "RFC 3261, Section 17"
    DEFVAL { 5000 }
    ::= { sipCommonCfgTimerEntry 14 }

  --
  -- Common Statistics Objects
  --
```

```
--
-- Summary Statistics
--
sipCommonSummaryStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonSummaryStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the summary statistics objects applicable
     to all SIP entities.  Each row represents those objects for a
     particular SIP entity present in this system."
  ::= {
 sipCommonSummaryStats 1 }

sipCommonSummaryStatsEntry OBJECT-TYPE
  SYNTAX      SipCommonSummaryStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of summary statistics.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex }
  ::= { sipCommonSummaryStatsTable 1 }

SipCommonSummaryStatsEntry ::= SEQUENCE {
     sipCommonSummaryInRequests         Counter32,
     sipCommonSummaryOutRequests        Counter32,
     sipCommonSummaryInResponses        Counter32,
     sipCommonSummaryOutResponses       Counter32,
     sipCommonSummaryTotalTransactions  Counter32,
     sipCommonSummaryDisconTime         TimeStamp
  }

sipCommonSummaryInRequests OBJECT-TYPE



  SYNTAX      Counter32
   MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object indicates the total number of SIP request messages
     received by the SIP entity, including retransmissions.
```

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonSummaryDisconTime object in the same
row."
::= { sipCommonSummaryStatsEntry 1 }

sipCommonSummaryOutRequests OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object contains the total number of SIP request messages
sent out (originated and relayed) by the SIP entity. Where a
particular message is sent more than once, for example as a
retransmission or as a result of forking, each transmission is
counted separately.

Discontinuities in the value
of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonSummaryDisconTime object in the same
row."
::= { sipCommonSummaryStatsEntry 2 }

sipCommonSummaryInResponses OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object contains the total number of SIP response messages
received by the SIP entity, including retransmissions.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonSummaryDisconTime object in the same
row."
::= { sipCommonSummaryStatsEntry 3 }

sipCommonSummaryOutResponses OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only

```
    STATUS      current
    DESCRIPTION
      "This object contains the total number of SIP response messages
       sent (originated and relayed) by the SIP entity including
       retransmissions.

       Discontinuities in the value of this counter can occur at
       re-initialization of the SIP entity or service.  A Management
       Station can detect discontinuities in this counter by
       monitoring the sipCommonSummaryDisconTime object in the same
       row."
    ::= { sipCommonSummaryStatsEntry 4 }

sipCommonSummaryTotalTransactions OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object contains a count of the number of transactions that
       are in progress and transactions that have reached the
       'Terminated' state.  It is not applicable to stateless SIP Proxy
       Servers.

       A SIP transaction occurs between a client and a server, and
       comprises all messages from the first request sent from the
        client to the server, up to a final (non-1xx) response sent
       from the server to the client.

       If the request is INVITE and the final response is a non-2xx,
       the transaction also include an ACK to the response.  The ACK
       for a 2xx response to an INVITE request is a separate
       transaction.

       The branch ID parameter in the Via header field values serves
       as a transaction identifier.

       A transaction is identified by the CSeq sequence number within
       a single call leg.  The ACK request has the same CSeq number as
       the corresponding INVITE request, but comprises a transaction
       of its own.

       In the case of a forked request, each branch counts as a single
       transaction.

       For a transaction stateless Proxy Server, this counter is
       always 0.
```

```
      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management

    Station can detect discontinuities in this counter by
      monitoring the sipCommonSummaryDisconTime object in the same
      row."
    ::= { sipCommonSummaryStatsEntry 5 }

sipCommonSummaryDisconTime  OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The value of the sysUpTime object when the counters for the
      summary statistics objects in this row last experienced a
      discontinuity."
    ::= { sipCommonSummaryStatsEntry 6 }

--
-- SIP Method Statistics
-- Total counts for each SIP method.
--
sipCommonMethodStatsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonMethodStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "This table contains the method statistics objects for SIP
      entities.  Each row represents those objects for a particular
      SIP entity present in this system."
    ::= { sipCommonMethodStats 1 }

sipCommonMethodStatsEntry OBJECT-TYPE

    SYNTAX      SipCommonMethodStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "A row of per entity method statistics.

      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex, sipCommonMethodStatsName }
    ::= { sipCommonMethodStatsTable 1 }
```

```
SipCommonMethodStatsEntry ::= SEQUENCE {
      sipCommonMethodStatsName   SipTCMethodName,
      sipCommonMethodStatsOutbounds    Counter32,




      sipCommonMethodStatsInbounds     Counter32,
      sipCommonMethodStatsDisconTime   TimeStamp

   }

sipCommonMethodStatsName OBJECT-TYPE
   SYNTAX      SipTCMethodName
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
     "This object uniquely identifies the SIP method related to the

      objects in a particular row."
   ::= { sipCommonMethodStatsEntry 1 }

sipCommonMethodStatsOutbounds OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This object reflects the total number of requests sent by the
      SIP entity, excluding retransmissions.  Retransmissions are
      counted separately and are not reflected in this counter.  A
      Management Station can detect discontinuities in this counter
      by monitoring the sipCommonMethodStatsDisconTime object in the
      same row."
   REFERENCE
     "RFC 3261, Section 7.1"
   ::= { sipCommonMethodStatsEntry 2 }

sipCommonMethodStatsInbounds OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This object reflects the total number of requests received by
      the SIP entity.  Retransmissions are counted separately and are
      not reflected in this counter.  A Management Station
 can detect
      discontinuities in this counter by monitoring the
      sipCommonMethodStatsDisconTime object in the same row."
   REFERENCE
```

```
      "RFC 3261, Section 7.1"
    ::= { sipCommonMethodStatsEntry 3 }

sipCommonMethodStatsDisconTime  OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION



      "The value of the sysUpTime object when the counters for the
       method statistics objects in this row last experienced a
       discontinuity."
    ::= { sipCommonMethodStatsEntry 4 }

--
-- Support for specific status codes
--
sipCommonStatusCodeTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonStatusCodeEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "This table contains the list of SIP status codes that each SIP
       entity in this system has been requested to monitor.  It is the
       mechanism by which specific status codes are monitored.
       Entries created in this table
 must not persist across reboots."
    ::= { sipCommonStatusCode 1 }

sipCommonStatusCodeEntry OBJECT-TYPE
    SYNTAX      SipCommonStatusCodeEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "This row contains information on a particular SIP status code
       that the SIP entity has been requested to monitor.  Entries
       created in this table must not persist across reboots.

       Each row represents those objects for a particular SIP entity
       present in this system.  applIndex is used to uniquely identify
       these instances of SIP entities and correlate them through
       the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex, sipCommonStatusCodeMethod,
            sipCommonStatusCodeValue }
    ::= { sipCommonStatusCodeTable 1 }
```

```
SipCommonStatusCodeEntry ::= SEQUENCE {
      sipCommonStatusCodeMethod     SipTCMethodName,
      sipCommonStatusCodeValue      Unsigned32,
      sipCommonStatusCodeIns
       Counter32,
      sipCommonStatusCodeOuts       Counter32,
      sipCommonStatusCodeRowStatus  RowStatus,
      sipCommonStatusCodeDisconTime TimeStamp
   }

sipCommonStatusCodeMethod OBJECT-TYPE
   SYNTAX      SipTCMethodName
   MAX-ACCESS  not-accessible



   STATUS      current
   DESCRIPTION
      "This object uniquely identifies a conceptual row in the
      table."
   ::= { sipCommonStatusCodeEntry 1 }

sipCommonStatusCodeValue OBJECT-TYPE
   SYNTAX      Unsigned32 (100..999)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This object contains a SIP status code value that the SIP
      entity has been requested to monitor.  All of the other
      information in the row is related to this value."
   ::= { sipCommonStatusCodeEntry 2 }

sipCommonStatusCodeIns OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "This object reflects the total number of response
 messages
      received by the SIP entity with the status code value contained
      in the sipCommonStatusCodeValue column.

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service, or when the
      monitoring of the status code is temporarily disabled.  A
      Management Station can detect discontinuities in this counter
      by monitoring the sipCommonStatusCodeDisconTime object in the
      same row."
```

```
  ::= { sipCommonStatusCodeEntry 3 }

sipCommonStatusCodeOuts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of response messages sent
     by the SIP entity with the status code value contained in the
     sipCommonStatusCodeValue column.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service, or when the
     monitoring of
 the Status code is temporarily disabled.  A
     Management Station can detect discontinuities in this counter
     by monitoring the sipCommonStatusCodeDisconTime object in the
     same row."



  ::= { sipCommonStatusCodeEntry 4 }

sipCommonStatusCodeRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The row augmentation in sipCommonStatusCodeNotifTable will be
     governed by the value of this RowStatus.

     The values 'createAndGo' and 'destroy' are the only valid
     values allowed for this object.  If a row exists, it will
     reflect a status of 'active' when queried."
  ::= { sipCommonStatusCodeEntry 5 }

sipCommonStatusCodeDisconTime  OBJECT-TYPE
  SYNTAX TimeStamp
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The value of the sysUpTime object when the counters for the
     status code statistics objects in this row last experienced
     a discontinuity."
   ::= { sipCommonStatusCodeEntry 6 }

--
-- Support for specific status code notifications
```

```
--

sipCommonStatusCodeNotifTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonStatusCodeNotifEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains objects to control notifications related to
     particular status codes that each SIP entity in this system has
     been requested to monitor.

     There is an entry in this table corresponding to each entry in
     sipCommonStatusCodeTable.  Therefore, this table augments
     sipCommonStatusCodeTable and utilizes the same index
     methodology.

     The objects in this table are not included directly in the
     sipCommonStatusCodeTable simply to keep the status code
     notification control objects separate from the actual status
     code statistics."
  ::= { sipCommonStatusCode 2 }



sipCommonStatusCodeNotifEntry OBJECT-TYPE
  SYNTAX
 SipCommonStatusCodeNotifEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This row contains information controlling notifications for a
     particular SIP status code that the SIP entity has been
     requested to monitor."
  AUGMENTS { sipCommonStatusCodeEntry }
  ::= { sipCommonStatusCodeNotifTable 1 }

SipCommonStatusCodeNotifEntry ::= SEQUENCE {
     sipCommonStatusCodeNotifSend         TruthValue,
     sipCommonStatusCodeNotifEmitMode     INTEGER,
     sipCommonStatusCodeNotifThresh       Unsigned32,
     sipCommonStatusCodeNotifInterval     Unsigned32
  }

sipCommonStatusCodeNotifSend OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
```

"This object controls whether a sipCommonStatusCodeNotif is
emitted when the status code value specified by
sipCommonStatusCodeValue is sent or received. If the value of
this object is 'true', then a notification
is sent. If it is
'false', no notification is sent.
Note well that a notification MAY be emitted for every message
sent or received that contains the particular status code.
Depending on the status code involved, this can cause a
significant number of notification emissions that could be
detrimental to network performance. Managers are forewarned to
be prudent in the use of this object to enable notifications.
Look to sipCommonStatusCodeNotifEmitMode for alternative
controls for sipCommonStatusCodeNotif emissions."
DEFVAL { false }
::= { sipCommonStatusCodeNotifEntry 1 }

sipCommonStatusCodeNotifEmitMode OBJECT-TYPE
SYNTAX INTEGER {
normal(1),
oneShot(2),
triggered(3) -- read-only
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION

"The object sipCommonStatusCodeNotifSend MUST be set to 'true'
for the values of this object to have any effect. It is
RECOMMENDED that the desired emit mode be established by this
object prior to setting sipCommonStatusCodeNotifSend to 'true'.
This object and the sipCommonStatusCodeNotifSend object can
obviously be set independently, but their respective values
will have a dependency on each other and the resulting
notifications.

This object specifies the mode for emissions of
sipCommonStatusCodeNotif notifications.

normal : sipCommonStatusCodeNotif notifications will be
emitted by the system for each SIP response
message sent or received that contains the
desired status code.

oneShot : Only one sipCommonStatusCodeNotif notification
will be emitted. It will be the next SIP response

```
                message sent or received that contains the
                desired
 status code.

                No more notifications are emitted until this
                object is set to 'oneShot' again or set to
                'normal'.  This option is provided as a means of
                quelling the potential promiscuous behavior that
                can be associated with the
                sipCommonStatusCodeNotif.

      triggered : This value is only readable and cannot be set.  It
                reflects that the 'oneShot' case has occurred,
                and indicates that the mode needs to be reset to
                get further notifications.  The mode is reset by
                setting this object to 'oneShot' or 'normal'."
   DEFVAL { oneShot }
   ::= { sipCommonStatusCodeNotifEntry 2 }

sipCommonStatusCodeNotifThresh OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
     "This object specifies the number of response messages sent or

    received by this system that are considered excessive.  Based
      on crossing that threshold, a
      sipCommonStatusCodeThreshExceededInNotif notification or a
      sipCommonStatusCodeThreshExceededOutNotif will be sent.  The
      sipCommonStatusCodeThreshExceededInNotif and



      sipCommonStatusCodeThreshExceededOutNotif notifications can be
      used as an early warning mechanism in lieu of using
      sipCommonStatusCodeNotif.

      Note that the configuration applied by this object will be
      applied equally to inbound and outbound response messages."
   DEFVAL { 500 }
   ::= { sipCommonStatusCodeNotifEntry 3 }

sipCommonStatusCodeNotifInterval OBJECT-TYPE
   SYNTAX      Unsigned32
   UNITS       "seconds"
   MAX-ACCESS  read-write
   STATUS      current
```

```
  DESCRIPTION
    "This object specifies the time interval over which, if
     sipCommonStatusCodeThresh is exceeded with respect to sent or
     received messages, a sipCommonStatusCodeThreshExceededInNotif
      or sipCommonStatusCodeThreshExceededOutNotif notification will
     be sent.

     Note that the configuration applied by this object will be
     applied equally to inbound and outbound response messages."
  DEFVAL { 60 }
  ::= { sipCommonStatusCodeNotifEntry 4 }

--
-- Transaction Statistics
--
sipCommonTransCurrentTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonTransCurrentEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains information on the transactions currently
     awaiting definitive responses by each SIP entity in this
     system.

     This table does not apply to transaction stateless Proxy
     Servers."
  ::= { sipCommonStatsTrans 1 }

sipCommonTransCurrentEntry OBJECT-TYPE
  SYNTAX      SipCommonTransCurrentEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Information on a particular SIP entity's current transactions.




     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex }
  ::= { sipCommonTransCurrentTable 1 }

SipCommonTransCurrentEntry ::= SEQUENCE {
     sipCommonTransCurrentactions  Gauge32
  }
```

```
sipCommonTransCurrentactions OBJECT-TYPE
  SYNTAX      Gauge32 (0..4294967295)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "This object contains the number of transactions awaiting
      definitive (non-1xx) response.  In the case of a forked
      request, each branch counts as a single transaction
      corresponding to the entity identified by applIndex."
::= { sipCommonTransCurrentEntry 1 }

--
-- SIP Retry Statistics
--
-- This group contains various statistics objects about
-- retransmission counts.
--
sipCommonStatsRetryTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonStatsRetryEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains retry statistics objects applicable to each
      SIP entity in this system."
  ::= { sipCommonStatsRetry 1 }

sipCommonStatsRetryEntry OBJECT-TYPE
  SYNTAX      SipCommonStatsRetryEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A row of retry statistics.

      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through the
      common framework of the NETWORK-SERVICES-MIB (RFC 2788)."



  INDEX { applIndex, sipCommonStatsRetryMethod }
  ::= { sipCommonStatsRetryTable 1 }

SipCommonStatsRetryEntry ::= SEQUENCE {
      sipCommonStatsRetryMethod          SipTCMethodName,
      sipCommonStatsRetries
```

```
        Counter32,
      sipCommonStatsRetryFinalResponses    Counter32,
      sipCommonStatsRetryNonFinalResponses Counter32,
      sipCommonStatsRetryDisconTime        TimeStamp
    }

sipCommonStatsRetryMethod OBJECT-TYPE
  SYNTAX      SipTCMethodName
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This object uniquely identifies the SIP method related to the
     objects in a row."
  ::= { sipCommonStatsRetryEntry 1 }

sipCommonStatsRetries OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of request
     retransmissions that have been sent by the SIP entity.  Note
     that there could be multiple retransmissions per request.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by
     monitoring
 the sipCommonStatsRetryDisconTime object in the same
     row."
  ::= { sipCommonStatsRetryEntry 2 }

sipCommonStatsRetryFinalResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of Final Response retries
     that have been sent by the SIP entity.  Note that there could
     be multiple retransmissions per request.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by




     monitoring the sipCommonStatsRetryDisconTime object in the same
```

```
      row."
  ::= { sipCommonStatsRetryEntry 3 }

sipCommonStatsRetryNonFinalResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of non-Final Response
     retries that
 have been sent by the SIP entity.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by
     monitoring the sipCommonStatsRetryDisconTime object in the same
     row."
  ::= { sipCommonStatsRetryEntry 4 }

sipCommonStatsRetryDisconTime  OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of the sysUpTime object when the counters for the
     retry statistics objects in this row last experienced a
     discontinuity."
  ::= { sipCommonStatsRetryEntry 5 }

--
-- Other Common Statistics
--
sipCommonOtherStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonOtherStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains other common statistics supported by each
     SIP entity in this system."
  ::= {
 sipCommonOtherStats 1 }

sipCommonOtherStatsEntry OBJECT-TYPE
  SYNTAX      SipCommonOtherStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Information on a particular SIP entity's other common
```

```
      statistics.



      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex }
    ::= { sipCommonOtherStatsTable 1 }

SipCommonOtherStatsEntry ::= SEQUENCE {
      sipCommonOtherStatsNumUnsupportedUris     Counter32,
      sipCommonOtherStatsNumUnsupportedMethods  Counter32,
      sipCommonOtherStatsOtherwiseDiscardedMsgs Counter32,
      sipCommonOtherStatsDisconTime   TimeStamp
    }

sipCommonOtherStatsNumUnsupportedUris OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS
   current
    DESCRIPTION
      "Number of RequestURIs received with an unsupported scheme.
      A server normally responds to such requests with a 400 Bad
      Request status code.

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can detect discontinuities in this counter by
      monitoring the sipCommonOtherStatsDisconTime object in the same
      row."
    ::= { sipCommonOtherStatsEntry 1 }

sipCommonOtherStatsNumUnsupportedMethods OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "Number of SIP requests received with unsupported methods.  A
      server normally responds to such requests with a 501 (Not
      Implemented) or 405 (Method Not Allowed).

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can
```

```
 detect discontinuities in this counter by
      monitoring the sipCommonOtherStatsDisconTime object in the same
      row."
  ::= { sipCommonOtherStatsEntry 2 }

sipCommonOtherStatsOtherwiseDiscardedMsgs OBJECT-TYPE
  SYNTAX      Counter32



  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "Number of SIP messages received that, for any number of
     reasons, was discarded without a response.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by
     monitoring the sipCommonOtherStatsDisconTime object in the same
     row."
  ::= { sipCommonOtherStatsEntry 3 }

sipCommonOtherStatsDisconTime OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of the sysUpTime object when the counters for the
     statistics objects in this row last
 experienced a
     discontinuity."
  ::= { sipCommonOtherStatsEntry 4 }

--
-- Notification related objects
--

--
-- Status code related notification objects.
--
sipCommonStatusCodeNotifTo OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the value of the To header in the message
     containing the status code that caused the notification.  The
```

```
      header name will be part of this object value.  For example,
      'To: Watson '."
  ::= { sipCommonNotifObjects 1 }

sipCommonStatusCodeNotifFrom OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the value of the From header in the
     message containing the status code that caused the




     notification.  The header name will be part of this object
     value.  For example, 'From: Watson '."
  ::= { sipCommonNotifObjects
 2 }

sipCommonStatusCodeNotifCallId OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the value of the Call-ID in the message
     containing the status code that caused the notification.  The
     header name will be part of this object value.  For example,
     'Call-ID: 5551212@example.com'."
  ::= { sipCommonNotifObjects 3 }

sipCommonStatusCodeNotifCSeq OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the CSeq value in the message containing
     the status code that caused the notification.  The header name
     will be part of this object value.  For example, 'CSeq: 1722
     INVITE'."
  ::= { sipCommonNotifObjects 4 }

--
-- General notification related objects.
--
sipCommonNotifApplIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
```

```
 MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "This object contains the applIndex as described in RFC 2788.
      This object is created in order to allow a variable binding
      containing a value of applIndex in a notification."
  ::= { sipCommonNotifObjects 5 }

sipCommonNotifSequenceNumber OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "This object contains a sequence number for each notification
      generated by this SIP entity.  Each notification SHOULD have a
      unique sequence number.  A network manager can use this
      information to determine whether notifications from a



      particular SIP entity have been missed.  The value of this
      object MUST start at 1 and increase by 1 with each generated
      notification.  If a system restarts, the sequence number MAY
      start again from 1."
  ::= { sipCommonNotifObjects
 6 }

--
-- Notifications
--
sipCommonStatusCodeNotif NOTIFICATION-TYPE
  OBJECTS {
     sipCommonNotifSequenceNumber,
     sipCommonNotifApplIndex,
     sipCommonStatusCodeNotifTo,
     sipCommonStatusCodeNotifFrom,
     sipCommonStatusCodeNotifCallId,
     sipCommonStatusCodeNotifCSeq,
     sipCommonStatusCodeIns,
     sipCommonStatusCodeOuts
  }
  STATUS      current
  DESCRIPTION
     "Signifies that a specific status code has been sent or received
      by the system."
  ::= { sipCommonMIBNotifications 1 }

sipCommonStatusCodeThreshExceededInNotif NOTIFICATION-TYPE
```

```
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonStatusCodeIns
  }
  STATUS      current
  DESCRIPTION
    "Signifies that a specific status code was found to have been
     received by the system frequently enough to exceed the
     configured threshold.  This notification can be used as
     an early warning mechanism
 in lieu of using
     sipCommonStatusCodeNotif."
  ::= { sipCommonMIBNotifications 2 }

sipCommonStatusCodeThreshExceededOutNotif NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonStatusCodeOuts
  }
  STATUS      current



  DESCRIPTION
    "Signifies that a specific status code was found to have been
     sent by the system enough to exceed the configured threshold.
     This notification can be used as an early warning mechanism in
     lieu of using sipCommonStatusCodeNotif."
  ::= { sipCommonMIBNotifications 3 }

sipCommonServiceColdStart NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceStartTime
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service has reinitialized itself or
     started for the first time.  This SHOULD result from a hard
     'down' to 'up' administrative status
 change.  The configuration
     or behavior of the service MAY be altered."
  ::= { sipCommonMIBNotifications 4 }

sipCommonServiceWarmStart NOTIFICATION-TYPE
```

```
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceLastChange
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service has reinitialized itself and is
     restarting after an administrative 'reset'.  The configuration
     or behavior of the service MAY be altered."
  ::= { sipCommonMIBNotifications 5 }

sipCommonServiceStatusChanged NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceLastChange,
    sipCommonCfgServiceOperStatus
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service operational status has changed."
  ::= { sipCommonMIBNotifications 6 }

--
-- Conformance



--
sipCommonMIBCompliances
  OBJECT IDENTIFIER
 ::= { sipCommonMIBConformance 1 }
sipCommonMIBGroups
  OBJECT IDENTIFIER ::= { sipCommonMIBConformance 2 }

--
-- Compliance Statements
--
sipCommonCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
    "The compliance statement for SIP entities."

  MODULE -- this module
     MANDATORY-GROUPS { sipCommonConfigGroup,
                        sipCommonStatsGroup
                      }
```

```
 OBJECT      sipCommonStatusCodeRowStatus
 SYNTAX       RowStatus { active(1) }
 WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
 DESCRIPTION
   "Support for createAndWait and notInService is not required."

 OBJECT      sipCommonCfgServiceNotifEnable
 MIN-ACCESS   not-accessible
 DESCRIPTION
   "This object is optional and does not need to be supported."

 GROUP       sipCommonInformationalGroup
 DESCRIPTION
   "This group is OPTIONAL.  A SIP entity can elect to not provide
    any support for these objects, as they
provide optional
    information."

 GROUP       sipCommonConfigTimerGroup
 DESCRIPTION
   "This group is OPTIONAL.  A SIP entity can elect to not provide
    any timer configuration."

 GROUP       sipCommonStatsRetryGroup
 DESCRIPTION
   "This group is OPTIONAL.  A SIP entity can elect to not provide
    any retry statistics."

 GROUP       sipCommonNotifGroup
 DESCRIPTION



   "This group is OPTIONAL.  A SIP entity can elect to not provide
    any notifications.  If implemented, the
    sipCommonStatusCodeNotifGroup and sipCommonNotifObjectsGroup
    MUST also be implemented."

 GROUP       sipCommonStatusCodeNotifGroup
 DESCRIPTION
   "This group is OPTIONAL.  A SIP entity can elect to not provide
    any notifications.  If implemented, the sipCommonNotifGroup and
    sipCommonNotifObjectsGroup MUST also be implemented."

 GROUP       sipCommonNotifObjectsGroup
 DESCRIPTION
   "This group is
```

```
 OPTIONAL.  A SIP entity can elect to not provide
      any notifications.  If implemented, the
      sipCommonStatusCodeNotifGroup and sipCommonNotifGroup MUST also
      be implemented."

  ::= { sipCommonMIBCompliances 1 }

--
-- Units of Conformance
--
sipCommonConfigGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgProtocolVersion,
        sipCommonCfgServiceOperStatus,
        sipCommonCfgServiceStartTime,
        sipCommonCfgServiceLastChange,
        sipCommonPortTransportRcv,
        sipCommonOptionTag,
        sipCommonOptionTagHeaderField,
        sipCommonCfgMaxTransactions,
        sipCommonCfgServiceNotifEnable,
        sipCommonCfgEntityType,
        sipCommonMethodSupportedName
  }
  STATUS  current
  DESCRIPTION
    "A collection of objects providing configuration common to all
     SIP entities."
  ::= { sipCommonMIBGroups 1 }

sipCommonInformationalGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgOrganization
   }
  STATUS  current



  DESCRIPTION
    "A collection of objects providing configuration common to all
     SIP entities."
  ::= { sipCommonMIBGroups 2 }

sipCommonConfigTimerGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgTimerA,
        sipCommonCfgTimerB,
        sipCommonCfgTimerC,
```

```
        sipCommonCfgTimerD,
        sipCommonCfgTimerE,
        sipCommonCfgTimerF,
        sipCommonCfgTimerG,
        sipCommonCfgTimerH,
        sipCommonCfgTimerI,
        sipCommonCfgTimerJ,
        sipCommonCfgTimerK,
        sipCommonCfgTimerT1,
        sipCommonCfgTimerT2,
        sipCommonCfgTimerT4
    }
    STATUS  current
    DESCRIPTION
      "A collection of objects providing timer configuration common to
       all SIP entities."
    ::= { sipCommonMIBGroups 3 }

sipCommonStatsGroup OBJECT-GROUP
    OBJECTS {
        sipCommonSummaryInRequests,
        sipCommonSummaryOutRequests,

       sipCommonSummaryInResponses,
        sipCommonSummaryOutResponses,
        sipCommonSummaryTotalTransactions,
        sipCommonSummaryDisconTime,
        sipCommonMethodStatsOutbounds,
        sipCommonMethodStatsInbounds,
        sipCommonMethodStatsDisconTime,
        sipCommonStatusCodeIns,
        sipCommonStatusCodeOuts,
        sipCommonStatusCodeRowStatus,
        sipCommonStatusCodeDisconTime,
        sipCommonTransCurrentactions,
        sipCommonOtherStatsNumUnsupportedUris,
        sipCommonOtherStatsNumUnsupportedMethods,
        sipCommonOtherStatsOtherwiseDiscardedMsgs,
        sipCommonOtherStatsDisconTime



    }
    STATUS  current
    DESCRIPTION
      "A collection of objects providing statistics common to all SIP
       entities."
    ::= { sipCommonMIBGroups 4 }
```

```
sipCommonStatsRetryGroup OBJECT-GROUP
  OBJECTS {
          sipCommonStatsRetries,
          sipCommonStatsRetryFinalResponses,
           sipCommonStatsRetryNonFinalResponses,
          sipCommonStatsRetryDisconTime
  }
  STATUS  current
  DESCRIPTION
    "A collection of objects providing retry statistics."
  ::= { sipCommonMIBGroups 5 }

sipCommonNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS {
          sipCommonStatusCodeNotif,
          sipCommonStatusCodeThreshExceededInNotif,
          sipCommonStatusCodeThreshExceededOutNotif,
          sipCommonServiceColdStart,
          sipCommonServiceWarmStart,
          sipCommonServiceStatusChanged
  }

  STATUS  current
  DESCRIPTION
    "A collection of notifications common to all SIP entities."
  ::= { sipCommonMIBGroups 6 }

sipCommonStatusCodeNotifGroup OBJECT-GROUP
  OBJECTS {
          sipCommonStatusCodeNotifSend,
          sipCommonStatusCodeNotifEmitMode,
          sipCommonStatusCodeNotifThresh,
          sipCommonStatusCodeNotifInterval
  }
  STATUS  current
  DESCRIPTION
    "A collection of
 objects related to the control and attribution
     of notifications common to all SIP entities."
  ::= { sipCommonMIBGroups 7 }

sipCommonNotifObjectsGroup OBJECT-GROUP



  OBJECTS {
          sipCommonStatusCodeNotifTo,
```

```
        sipCommonStatusCodeNotifFrom,
        sipCommonStatusCodeNotifCallId,
        sipCommonStatusCodeNotifCSeq,
        sipCommonNotifApplIndex,
        sipCommonNotifSequenceNumber
    }
    STATUS  current
    DESCRIPTION
      "A collection of accessible-for-notify objects related to the
       notification defined in this MIB module."
    ::= { sipCommonMIBGroups 8 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-COMMON-MIB
No license file was found, but licenses were detected in source scan.

```
RMON2-MIB DEFINITIONS ::= BEGIN
IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,
    Gauge32, IpAddress, TimeTicks, mib-2        FROM SNMPv2-SMI
    TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp
                                    FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP             FROM SNMPv2-CONF
    ifIndex                                 FROM IF-MIB
    OwnerString, statistics, history, hosts,
    matrix, filter, etherStatsEntry, historyControlEntry,
    hostControlEntry, matrixControlEntry, filterEntry,
    channelEntry                    FROM RMON-MIB
    tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,



    ringStationControlEntry, sourceRoutingStatsEntry
                            FROM TOKEN-RING-RMON-MIB;
--  Remote Network Monitoring MIB

rmon MODULE-IDENTITY
    LAST-UPDATED "200605020000Z"    -- May 2, 2006
    ORGANIZATION "IETF RMON
   MIB Working Group"
    CONTACT-INFO
        "Author:
                Steve Waldbusser
            Phone:  +1-650-948-6500
            Fax :   +1-650-745-0671
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```

Working Group Chair:
Andy Bierman
E-mail: ietf@andybierman.com

Working Group Mailing List: <rmonmib@ietf.org>
To subscribe send email to: <rmonmib-request@ietf.org> "
DESCRIPTION
"The MIB module for managing remote monitoring
device implementations. This MIB module
extends the architecture introduced in the original
RMON MIB as specified in RFC 2819.

Copyright (C) The Internet Society (2006). This version of
this MIB module is part of RFC 4502; see the RFC itself for
full legal notices."

REVISION "200605020000Z" -- May 2, 2006
DESCRIPTION
"This version updates the proposed-standard version of the
RMON2 MIB (published
as RFC 2021) by adding 2 new
enumerations to the nlMatrixTopNControlRateBase object and
4 new enumerations to the alMatrixTopNControlRateBase object.
These new enumerations support the creation of high-capacity
topN reports in the High Capacity RMON MIB [RFC3273].

Additionally, the following objects have been deprecated, as
they have not had enough independent implementations to
demonstrate interoperability to meet the requirements of a
Draft Standard:

probeDownloadFile
probeDownloadTFTPServer
probeDownloadAction
probeDownloadStatus

serialMode
serialProtocol
serialTimeout
serialModemInitString
serialModemHangUpString
serialModemConnectResp
serialModemNoConnectResp
serialDialoutTimeout
serialStatus

serialConnectDestIpAddress
serialConnectType
serialConnectDialString
serialConnectSwitchConnectSeq
serialConnectSwitchDisconnectSeq
serialConnectSwitchResetSeq
serialConnectOwner
serialConnectStatus
netConfigIPAddress
netConfigSubnetMask
netConfigStatus
netDefaultGateway
tokenRingMLStats2DroppedFrames
tokenRingMLStats2CreateTime
tokenRingPStats2DroppedFrames
tokenRingPStats2CreateTime
ringStationControl2DroppedFrames
ringStationControl2CreateTime
sourceRoutingStats2DroppedFrames
sourceRoutingStats2CreateTime
trapDestIndex
trapDestCommunity
trapDestProtocol
trapDestAddress
trapDestOwner
trapDestStatus

In addition, two corrections were made. The LastCreateTime Textual Convention had been defined with a base type of another textual convention, which isn't allowed in SMIv2. The definition has been modified to use TimeTicks as the base type.

Further,
the SerialConfigEntry SEQUENCE definition included sub-typing information that is not allowed in SMIv2. This information has been deleted. Ranges were added to a number of objects and textual-conventions to constrain their maximum (and sometimes minimum) sizes. The addition of these ranges documents existing practice for these objects. These objects

are:
ControlString
protocolDirID
protocolDirParameters
addressMapNetworkAddress

```
            nlHostAddress
            nlMatrixSDSourceAddress
            nlMatrixSDDestAddress
            nlMatrixDSSourceAddress
            nlMatrixDSDestAddress
            nlMatrixTopNSourceAddress
            nlMatrixTopNDestAddress
            alHostEntry
            alMatrixSDEntry
            alMatrixDSEntry
            alMatrixTopNSourceAddress
            alMatrixTopNDestAddress

        Finally, the TimeFilter TC has been updated to encourage agent
         implementations that allow a MIB walk to behave well even when
        performed by an application that is not aware of the special
        TimeFilter semantics."

    REVISION "200207080000Z"        -- 08 July, 2002
    DESCRIPTION
        "Added new enumerations to support the High-Capacity RMON
        MIB as defined in RFC 3273.  Also fixed some typos and
        added clarifications."

    REVISION "199605270000Z"    -- 27 May, 1996
    DESCRIPTION
        "Original version.  Published as RFC 2021."
    ::= { mib-2 16 }

-- { rmon 1 } through { rmon 10 } are defined in RMON and
-- the Token Ring RMON MIB [RFC1513]

    protocolDir     OBJECT IDENTIFIER ::= { rmon 11 }
    protocolDist    OBJECT IDENTIFIER ::= { rmon 12 }
    addressMap      OBJECT IDENTIFIER ::= { rmon 13 }
    nlHost          OBJECT IDENTIFIER ::= { rmon 14 }
    nlMatrix        OBJECT IDENTIFIER ::= { rmon 15 }
    alHost          OBJECT IDENTIFIER ::= { rmon 16 }
    alMatrix        OBJECT IDENTIFIER
  ::= { rmon 17 }
    usrHistory      OBJECT IDENTIFIER ::= { rmon 18 }
    probeConfig     OBJECT IDENTIFIER ::= { rmon 19 }
    rmonConformance OBJECT IDENTIFIER ::= { rmon 20 }




-- Textual Conventions
```

```
ZeroBasedCounter32 ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
     "This TC describes an object that counts events with the
     following semantics: objects of this type will be set to
     zero(0) on creation and will thereafter count appropriate
     events, wrapping back to zero(0) when the value 2^32 is
     reached.

     Provided that an application discovers the new object within
     the minimum time to wrap, it can use the initial value as a
     delta since it last polled the table of which this object is
     part.  It is important for a management station to be aware of
     this minimum time and the actual time between polls, and to
     discard data if the actual time is too long or there is no
     defined minimum time.

      Typically, this TC is used in tables where the INDEX space is
     constantly changing and/or the TimeFilter mechanism is in use."
  SYNTAX Gauge32

LastCreateTime ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
     "This TC describes an object that stores the value of the
     sysUpTime object at the last time its entry was created.

     This can be used for polling applications to determine that an
     entry has been deleted and re-created between polls, causing
     an otherwise undetectable discontinuity in the data.

     If sysUpTime is reset to zero as a result of a re-
     initialization of the network management (sub)system, then
     the values of all LastCreateTime objects are also reset.
     However, after approximately 497 days without a re-
     initialization, the sysUpTime object will reach 2^^32-1 and
     then increment to zero; in this case, existing values
     of TimeStamp objects do not change.
 This can lead to
     ambiguities in the value of TimeStamp objects."
  SYNTAX TimeTicks

TimeFilter ::= TEXTUAL-CONVENTION
 STATUS       current
 DESCRIPTION
    "To be used for the index to a table.  Allows an application
    to download only those rows changed since a particular time.
```

Note that this is not a history mechanism. Only current values of underlying objects are returned; saved instance values associated with particular values of sysUpTime are not.

An entry is considered changed if the value of any object in the entry changes, if the row is created, or if any object in the entry is created or deleted. Note that deleted entries cannot be detected or downloaded.

A time-filtered conceptual table is created by inserting a single object of SYNTAX TimeFilter as the first INDEX component in a copy of an existing basic conceptual table (i.e., any SEQUENCE without a TimeFilter INDEX component). Thus, for each conceptual entry 'I' in the basic table, there exists N conceptual entries in the time-filtered version, indexed N.I, where 'N' is equal to the value of sysUpTime.

When an application retrieves conceptual instances from a time-filtered table, and an INDEX value is provided for the TimeFilter INDEX component 'N', the agent will only consider returning basic conceptual entries (e.g., 'fooColumn.N.I') if any column within the basic conceptual entry has changed since sysUpTime 'N'. If not, the basic conceptual entry will be ignored for the particular retrieval operation.

When sysUpTime is equal to zero, this table shall be empty.

One conceptual entry exists for each past value of sysUpTime, except that the whole table is purged should sysUpTime wrap.

As an entry in a time-filtered table is updated (i.e., one of the columns in the basic conceptual table is changed), new conceptual entries are also created in the time-filtered version (which still shares the now updated object values with all other instances). The number of unique time-filtered instances that are created is determined by the value of sysUpTime at which the basic entry was last updated. One unique instance will exist for each value of sysUpTime at the last update time for the row. However, a new TimeFilter index instance is created for each new sysUpTime value. The TimeFilter index values not associated with entry updates are called duplicate time-filtered instances.

After some deployment experience, it has been determined that

a time-filtered table is more efficient if the agent stops a MIB walk operation by skipping over rows with a TimeFilter index value higher than the value in the received GetNext/GetBulk request. That is, instead of incrementing a TimeFilter index value, the agent will continue to the next

object or table. As a consequence, GetNext or GetBulk operations will provide only one pass through a time-filtered table.

It is suggested that an agent implement a time-filtered table in this manner to improve performance and avoid a MIB walk getting stuck in time-filtered tables. It is, however, still acceptable for an agent to implement a time-filtered table in the traditional manner (i.e., every conceptual time-filtered instance is returned in GetNext and GetBulk PDU responses), and management applications must be able to deal with such traditional implementations.

See the appendix for further discussion of this textual convention.

The following example is provided to demonstrate TimeFilter behavior:

Consider the following basic conceptual table, basicFooTable. (Note that the basic version of a time-filtered table may not actually be defined.)

```
basicFooTable:

 basicFooTable ...
INDEX { fooIndex }

BasicFooEntry {
  fooIndex    Integer32,
  fooCounts   Counter32
}
```

For this example, the basicFooTable contains two static conceptual entries (fooIndex equals '1' and '2'), created at time zero. It also contains one dynamic conceptual entry (fooIndex equals '3'), which is created at time '3' and deleted at time '7'.

The time-filtered version of the basicFooTable could be defined as follows:

```
FooTable:

fooTable ...
INDEX { fooTimeMark, fooIndex }

FooEntry {



  fooTimeMark  TimeFilter,
  fooIndex     Integer32,
  fooCounts    Counter32
}
```

Note that entries exist in the time-filtered conceptual table only if they actually exist in the underlying (basic) table.

For this example, the fooTable will have three underlying basic entries (fooIndex == 1, 2, and 3), with the following activity (for sysUpTime equal 0 to 9):

- fooEntry.N.1 is created at time '0' and most recently updated at time '6' to the value '5'.
- fooEntry.N.2 is created at time '0' and most recently updated at time '8' to the value '9'.
- fooEntry.N.3 is created at time '3', updated at time '5' to the value '17', and deleted at time '7'.

The following tables show the values that would be returned for MIB walk operations with various TimeFilter values, done at different times. An application issues a retrieval request at time 'T', with a TimeFilter value, 'N' (typically set to a lower value, such as the value of sysUpTime at the last polling cycle).

The following values would be returned in a MIB walk of fooCounts.N if T equals '0' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0

Note that nothing is returned for fooCounts.0.3, since that entry does not exist at sysUpTime equals '0'.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '3' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0
fooCounts.0.3	0
fooCounts.1.3	0
fooCounts.2.3	0
fooCounts.3.3	0

Note that there are no instances for T equals 1 or 2 for the first two values of N, as these entries did not change since they were created at time '0'.

Note that the current value for 'fooCounts.N.3' is returned here, even for values of N less than '3' (when the entry was created). The agent only considers the current existence of an entry in the TimeFilter algorithm, not the time when the entry

was created.

Note that the instances 'fooCounts.0.3', 'fooCounts.1.3', and 'fooCounts.2.3' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '6' and N equals '3':

fooCounts.N.I	Value
fooCounts.3.1	5
fooCounts.3.3	17
fooCounts.4.1	5
fooCounts.4.3	17
fooCounts.5.1	5
fooCounts.5.3	17
fooCounts.6.1	5

Note that no instances for entry 'fooCounts.N.2' are returned, since it has not changed since time '3'.

Note that all instances except 'fooCounts.5.3' and
'fooCounts.6.1' are duplicates and can be suppressed by the
agent in a MIB walk.

The following values would be returned in a full (traditional)
MIB walk of fooCounts.N if T equals '9' and N equals
'6':

fooCounts.N.I	Value
fooCounts.6.1	5
fooCounts.6.2	9
fooCounts.7.2	9
fooCounts.8.2	9

Note that no instances for entry 'fooCounts.N.3' are returned,
since it was deleted at time '7'.

Note that instances 'fooCounts.6.2' and 'fooCounts.7.2'

are duplicates and can be suppressed by the agent in a MIB
walk."

SYNTAX TimeTicks

DataSource ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"Identifies the source of the data that the associated
function is configured to analyze. This source can be any
interface on this device.

In order to identify a particular interface, this
object shall identify the instance of the ifIndex
object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from
interface #1, this object
would be set to ifIndex.1."
SYNTAX OBJECT IDENTIFIER

--
-- Protocol Directory Group
--
-- Lists the inventory of protocols the probe has the capability of
-- monitoring and allows the addition, deletion, and configuration of

```
-- entries in this list.

protocolDirLastChange OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of sysUpTime at the time the protocol directory
     was last modified, either through insertions or deletions,
     or through modifications of the
     protocolDirAddressMapConfig, protocolDirHostConfig, or
     protocolDirMatrixConfig."
  ::= { protocolDir 1 }

protocolDirTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ProtocolDirEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table lists the protocols that this agent has the
     capability to decode and count.  There is one entry in this
     table for each such protocol.
 These protocols represent
     different network-layer, transport-layer, and higher-layer



     protocols.  The agent should boot up with this table
     preconfigured with those protocols that it knows about and
     wishes to monitor.  Implementations are strongly encouraged to
     support protocols higher than the network layer (at least for
     the protocol distribution group), even for implementations
     that don't support the application-layer groups."
  ::= { protocolDir 2 }

protocolDirEntry OBJECT-TYPE
  SYNTAX      ProtocolDirEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the protocolDirTable.

      An example of the indexing of this entry is
      protocolDirLocalIndex.8.0.0.0.1.0.0.8.0.2.0.0, which is the
      encoding of a length of 8, followed by 8 subids encoding the
      protocolDirID of 1.2048, followed by a length of 2 and the
      2 subids encoding zero-valued
```

parameters.

Note that some combinations of index values may result in an index that exceeds 128 sub-identifiers in length, which exceeds the maximum for the SNMP protocol. Implementations should take care to avoid such combinations."

```
  INDEX { protocolDirID, protocolDirParameters }
  ::= { protocolDirTable  1 }

ProtocolDirEntry ::= SEQUENCE {
  protocolDirID                 OCTET STRING,
  protocolDirParameters         OCTET STRING,
  protocolDirLocalIndex         Integer32,
  protocolDirDescr              DisplayString,
  protocolDirType               BITS,
  protocolDirAddressMapConfig   INTEGER,
  protocolDirHostConfig         INTEGER,
  protocolDirMatrixConfig       INTEGER,
  protocolDirOwner              OwnerString,
  protocolDirStatus             RowStatus
}

protocolDirID OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (4..128))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

"A unique identifier for a particular protocol. Standard identifiers will be defined in such a manner that they

can often be used as specifications for new protocols - i.e., a tree-structured assignment mechanism that matches the protocol encapsulation 'tree' and that has algorithmic assignment mechanisms for certain subtrees. See RFC 2074 for more details.

Despite the algorithmic mechanism, the probe will only place entries in here for those protocols it chooses to collect. In other words, it need not populate this table with all possible ethernet protocol types, nor need it create them on the fly when it sees them. Whether it does these things is a matter of product definition (cost/benefit, usability) and is up to the designer of the product.

If an entry is written to this table with a protocolDirID that the agent doesn't understand, either

directly or
algorithmically, the SET request will be rejected with an
inconsistentName or badValue (for SNMPv1) error."
::= { protocolDirEntry 1 }

protocolDirParameters OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..32))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A set of parameters for the associated protocolDirID.
See the associated RMON2 Protocol Identifiers document
for a description of the possible parameters. There
will be one octet in this string for each sub-identifier in
the protocolDirID, and the parameters will appear here in the
same order as the associated sub-identifiers appear in the
protocolDirID.

Every node in the protocolDirID tree has a different, optional
set of parameters defined (that is, the definition of
parameters for a node is optional). The proper parameter
value for each node is included in this string. Note that
the
inclusion of a parameter value in this string for each node is
not optional. What is optional is that a node may have no
parameters defined, in which case the parameter field for that
node will be zero."
::= { protocolDirEntry 2 }

protocolDirLocalIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The locally arbitrary but unique identifier associated
with this protocolDir entry.

The value for each supported protocol must remain constant at
least from one re-initialization of the entity's network
management system to the next re-initialization, except that
if a protocol is deleted and re-created, it must be re-created
with a new value that has not been used since the last
re-initialization.

The specific value is meaningful only within a given SNMP

```
      entity.  A protocolDirLocalIndex must not
 be re-used until the
      next agent restart in the event that the protocol directory
      entry is deleted."
  ::= { protocolDirEntry 3 }

protocolDirDescr OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (1..64))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "A textual description of the protocol encapsulation.
      A probe may choose to describe only a subset of the
      entire encapsulation (e.g., only the highest layer).

      This object is intended for human consumption only.

      This object may not be modified if the associated
      protocolDirStatus object is equal to active(1)."
  ::= { protocolDirEntry 4 }

protocolDirType OBJECT-TYPE
  SYNTAX      BITS {
                extensible(0),
                addressRecognitionCapable(1)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "This object describes 2 attributes of this protocol
      directory entry.


 The presence or absence of the 'extensible' bit describes
       whether this protocol directory entry can be extended
       by the user by creating protocol directory entries that are
       children of this protocol.

       An example of an entry that will often allow extensibility is



       'ip.udp'.  The probe may automatically populate some children
       of this node, such as 'ip.udp.snmp' and 'ip.udp.dns'.
       A probe administrator or user may also populate additional
       children via remote SNMP requests that create entries in this
       table.  When a child node is added for a protocol for which the
       probe has no built-in support extending a parent node (for
```

which the probe does have built-in support),
that child node is not extendable. This is termed 'limited extensibility'.

When a child node is added through this extensibility mechanism, the values of protocolDirLocalIndex and protocolDirType
shall be assigned by the agent.

The other objects in the entry will be assigned by the manager who is creating the new entry.

This object also describes whether this agent can recognize addresses for this protocol, should it be a network-level protocol. That is, while a probe may be able to recognize packets of a particular network-layer protocol and count them, it takes additional logic to be able to recognize the addresses in this protocol and to populate network-layer or application-layer tables with the addresses in this protocol. If this bit is set, the agent will recognize network-layer addresses for this protocol and populate the network- and application-layer host and matrix tables with these protocols.

Note that when an entry is created, the agent will supply values for the bits that match the capabilities of the agent

with respect to this protocol. Note that since row creations usually exercise the limited extensibility feature, these bits will usually be set to zero."
::= { protocolDirEntry 5 }

```
protocolDirAddressMapConfig OBJECT-TYPE
  SYNTAX      INTEGER {
                notSupported(1),
                supportedOff(2),
                supportedOn(3)
              }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

"This object describes and configures the probe's support for address mapping for this protocol. When the probe creates entries in this table for all protocols that it understands,

it will set the entry to notSupported(1) if it doesn't have

```
      the capability to perform address mapping for the protocol or
      if this protocol is not a network-layer protocol.  When
      an entry is created in this table by a management operation as
      part of the limited extensibility feature,
   the probe must set
      this value to notSupported(1), because limited extensibility
      of the protocolDirTable does not extend to interpreting
      addresses of the extended protocols.

      If the value of this object is notSupported(1), the probe
      will not perform address mapping for this protocol and
      shall not allow this object to be changed to any other value.
      If the value of this object is supportedOn(3), the probe
      supports address mapping for this protocol and is configured
      to perform address mapping for this protocol for all
      addressMappingControlEntries and all interfaces.
      If the value of this object is supportedOff(2), the probe
      supports address mapping for this protocol but is configured
      to not perform address mapping for this protocol for any
      addressMappingControlEntries and all interfaces.
      Whenever this value changes from supportedOn(3) to
      supportedOff(2), the probe
   shall delete all related entries in
      the addressMappingTable."
    ::= { protocolDirEntry 6 }

  protocolDirHostConfig OBJECT-TYPE
    SYNTAX      INTEGER {
                  notSupported(1),
                  supportedOff(2),
                  supportedOn(3)
                }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "This object describes and configures the probe's support for
      the network-layer and application-layer host tables for this
      protocol.  When the probe creates entries in this table for
      all protocols that it understands, it will set the entry to
      notSupported(1) if it doesn't have the capability to track the
      nlHostTable for this protocol or if the alHostTable is
      implemented but doesn't have the capability to track this
      protocol.  Note that if the alHostTable is implemented, the
      probe may only support a protocol if it is supported in both
      the nlHostTable and the
   alHostTable.

      If the associated protocolDirType object has the
```

addressRecognitionCapable bit set, then this is a network-
layer protocol for which the probe recognizes addresses, and

thus the probe will populate the nlHostTable and alHostTable
with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe
will not track the nlHostTable or alHostTable for this
protocol and shall not allow this object to be changed to any
other value. If the value of this object is supportedOn(3),
the probe supports tracking of the nlHostTable and alHostTable
for this protocol and is configured to track both tables
for this protocol for all control entries and all interfaces.
If the value of this object is supportedOff(2), the probe
supports tracking of the nlHostTable and alHostTable for this
protocol but is configured to not track these
tables
for any control entries or interfaces.
Whenever this value changes from supportedOn(3) to
supportedOff(2), the probe shall delete all related entries in
the nlHostTable and alHostTable.

Note that since each alHostEntry references 2 protocol
directory entries, one for the network address and one for the
type of the highest protocol recognized, an entry will
only be created in that table if this value is supportedOn(3)
for both protocols."
::= { protocolDirEntry 7 }

protocolDirMatrixConfig OBJECT-TYPE
SYNTAX INTEGER {
notSupported(1),
supportedOff(2),
supportedOn(3)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object describes and configures the probe's support for
the network-layer and application-layer matrix tables for this
protocol. When the probe creates entries
in this table for
all protocols that it understands, it will set the entry to
notSupported(1) if it doesn't have the capability to track the
nlMatrixTables for this protocol or if the alMatrixTables are
implemented but don't have the capability to track this

protocol. Note that if the alMatrix tables are implemented, the probe may only support a protocol if it is supported in both of the nlMatrixTables and both of the alMatrixTables.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-

layer protocol for which the probe recognizes addresses, and thus the probe will populate both of the nlMatrixTables and both of the alMatrixTables with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track either of the nlMatrixTables or the alMatrixTables
for this protocol and shall not allow this object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol and is configured to track these tables for this protocol for all control entries and all interfaces. If the value of this object is supportedOff(2), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the alMatrixTables for this protocol but is configured to not track these tables for this protocol for any control entries or interfaces. Whenever this value changes from supportedOn(3) to supportedOff(2), the probe shall delete all related entries in the nlMatrixTables and the alMatrixTables.

Note that since each alMatrixEntry references 2 protocol directory entries, one for
the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."
::= { protocolDirEntry 8 }

protocolDirOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is therefore using the resources assigned to it."

```
  ::= { protocolDirEntry 9 }

protocolDirStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The status of this protocol directory entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.




     If this object is not equal to active(1), all associated
     entries in the nlHostTable, nlMatrixSDTable, nlMatrixDSTable,
     alHostTable, alMatrixSDTable, and alMatrixDSTable shall be
      deleted."
  ::= { protocolDirEntry 10 }

--
-- Protocol Distribution Group  (protocolDist)
--
-- Collects the relative amounts of octets and packets for the
-- different protocols detected on a network segment.
--    protocolDistControlTable,
--    protocolDistStatsTable

protocolDistControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ProtocolDistControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Controls the setup of protocol type distribution statistics
     tables.

     Implementations are encouraged to add an entry per monitored
     interface upon initialization so that a default collection
     of protocol statistics is available.

     Rationale:
     This table controls collection of very basic statistics
     for any or all of the protocols detected on a given interface.
     An NMS can use this table to quickly determine bandwidth
     allocation utilized by different protocols.

     A media-specific
```

```
 statistics collection could also
      be configured (e.g., etherStats, trPStats) to easily obtain
      total frame, octet, and droppedEvents for the same
      interface."
  ::= { protocolDist 1 }

protocolDistControlEntry OBJECT-TYPE
  SYNTAX      ProtocolDistControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the protocolDistControlTable.

       An example of the indexing of this entry is
       protocolDistControlDroppedFrames.7"
  INDEX { protocolDistControlIndex }



  ::= { protocolDistControlTable 1 }

ProtocolDistControlEntry ::= SEQUENCE {
  protocolDistControlIndex              Integer32,
  protocolDistControlDataSource         DataSource,
  protocolDistControlDroppedFrames      Counter32,
  protocolDistControlCreateTime         LastCreateTime,
  protocolDistControlOwner              OwnerString,
  protocolDistControlStatus             RowStatus
}

protocolDistControlIndex
 OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A unique index for this protocolDistControlEntry."
  ::= { protocolDistControlEntry 1 }

protocolDistControlDataSource OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The source of data for the this protocol distribution.

      The statistics in this group reflect all packets
      on the local network segment attached to the
```

identified interface.

This object may not be modified if the associated
protocolDistControlStatus object is equal to active(1)."
::= { protocolDistControlEntry 2 }

protocolDistControlDroppedFrames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents,
but
that the probe chose not to count for this entry for
whatever reason. Most often, this event occurs when the probe
is out of some resources and decides to shed load from this
collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { protocolDistControlEntry 3 }

protocolDistControlCreateTime OBJECT-TYPE
SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this control entry was last
activated. This can be used by the management station to
ensure that the table has not been deleted and recreated
between polls."
::= { protocolDistControlEntry 4 }

protocolDistControlOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is
therefore using the resources assigned to it."
::= { protocolDistControlEntry 5 }

```
protocolDistControlStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The status of this row.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.

     If this object is not equal to active(1), all associated
     entries in the protocolDistStatsTable shall be deleted."
  ::= { protocolDistControlEntry 6 }

-- per interface protocol distribution statistics table
protocolDistStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ProtocolDistStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An entry is made in this table for every protocol in the
     protocolDirTable that has been seen in at least one packet.
     Counters are updated
 in this table for every protocol type
     that is encountered when parsing a packet, but no counters are




     updated for packets with MAC-layer errors.

     Note that if a protocolDirEntry is deleted, all associated
     entries in this table are removed."
  ::= { protocolDist 2 }

protocolDistStatsEntry OBJECT-TYPE
  SYNTAX      ProtocolDistStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the protocolDistStatsTable.

     The index is composed of the protocolDistControlIndex of the
     associated protocolDistControlEntry, followed by the
     protocolDirLocalIndex of the associated protocol that this
     entry represents.  In other words, the index identifies the
     protocol distribution an entry is a part of and the
     particular protocol that it represents.
```

```
      An example of the indexing of this entry is
      protocolDistStatsPkts.1.18"
  INDEX { protocolDistControlIndex,
protocolDirLocalIndex }
  ::= { protocolDistStatsTable 1 }

ProtocolDistStatsEntry ::= SEQUENCE {
  protocolDistStatsPkts                ZeroBasedCounter32,
  protocolDistStatsOctets               ZeroBasedCounter32
}

protocolDistStatsPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets of this protocol type received
      without errors.  Note that this is the number of
      link-layer packets, so if a single network-layer packet
      is fragmented into several link-layer frames, this counter
      is incremented several times."
  ::= { protocolDistStatsEntry 1 }

protocolDistStatsOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets in packets of this protocol type




      received since it was added to the protocolDistStatsTable
      (excluding framing bits,
but including FCS octets), except for
      those octets in packets that contained errors.

      Note that this doesn't count just those octets in the
      particular protocol frames but includes the entire packet
      that contained the protocol."
  ::= { protocolDistStatsEntry 2 }

--
-- Address Map Group   (addressMap)
--
-- Lists MAC address to network address bindings discovered by the
-- probe and what interface they were last seen on.
--    addressMapControlTable
```

```
--  addressMapTable

addressMapInserts OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times an address mapping entry has been
     inserted into the addressMapTable.  If an entry is inserted,
     then deleted, and then inserted, this counter will be
     incremented by 2.

     Note that the table size can be determined by subtracting
     addressMapDeletes from addressMapInserts."
  ::= { addressMap 1 }

addressMapDeletes
 OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times an address mapping entry has been
     deleted from the addressMapTable (for any reason).  If
     an entry is deleted, then inserted, and then deleted, this
     counter will be incremented by 2.

     Note that the table size can be determined by subtracting
     addressMapDeletes from addressMapInserts."
  ::= { addressMap 2 }

addressMapMaxDesiredEntries OBJECT-TYPE
  SYNTAX      Integer32 (-1..2147483647)
  MAX-ACCESS  read-write



  STATUS      current
  DESCRIPTION
     "The maximum number of entries that are desired in the
     addressMapTable.  The probe will not create more than
     this number of entries in the table but may choose to create
     fewer entries in this table for any reason, including the lack
     of resources.

     If this object is set to a value less than the current number
      of entries, enough entries are chosen in an
     implementation-dependent manner and deleted so that the number
```

```
      of entries in the table equals the value of this object.

      If this value is set to -1, the probe may create any number
      of entries in this table.

      This object may be used to control how resources are allocated
      on the probe for the various RMON functions."
   ::= { addressMap 3 }

addressMapControlTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF AddressMapControlEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A table to control the collection of mappings from network
       layer address to physical address to interface.

      Note that this is not like the typical RMON
      controlTable and dataTable in which each entry creates
      its own data table.  Each entry in this table enables the
      discovery of addresses on a new interface and the placement
      of address
 mappings into the central addressMapTable.

      Implementations are encouraged to add an entry per monitored
      interface upon initialization so that a default collection
      of address mappings is available."
   ::= { addressMap 4 }

addressMapControlEntry OBJECT-TYPE
   SYNTAX      AddressMapControlEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A conceptual row in the addressMapControlTable.

      An example of the indexing of this entry is
      addressMapControlDroppedFrames.1"



   INDEX { addressMapControlIndex }
   ::= { addressMapControlTable 1 }

AddressMapControlEntry ::= SEQUENCE {
   addressMapControlIndex              Integer32,
   addressMapControlDataSource         DataSource,
   addressMapControlDroppedFrames      Counter32,
```

```
  addressMapControlOwner            OwnerString,
  addressMapControlStatus           RowStatus
}

addressMapControlIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS
 not-accessible
  STATUS      current
  DESCRIPTION
     "A unique index for this entry in the addressMapControlTable."
  ::= { addressMapControlEntry 1 }

addressMapControlDataSource OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The source of data for this addressMapControlEntry."
  ::= { addressMapControlEntry 2 }

addressMapControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the probe
     is out of some resources and decides to shed load from this
     collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { addressMapControlEntry 3 }

addressMapControlOwner OBJECT-TYPE
  SYNTAX      OwnerString



  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

"The entity that configured this entry and is
therefore using the resources assigned to it."
::= { addressMapControlEntry 4 }

addressMapControlStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this addressMap control entry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value.

If this object is not equal to active(1), all associated
entries in the addressMapTable shall be deleted."
::= { addressMapControlEntry 5 }

addressMapTable OBJECT-TYPE
SYNTAX SEQUENCE OF AddressMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table of mappings from network layer address to physical
address to interface.

The probe will add entries to this table based on the source
MAC and network addresses seen in packets without MAC-level
errors. The probe will populate this table for all protocols
in the protocol directory table whose value of
protocolDirAddressMapConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirAddressMapConfig value of supportedOff(2)."
::= { addressMap 5 }

addressMapEntry OBJECT-TYPE
SYNTAX AddressMapEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A conceptual row in the addressMapTable.

The protocolDirLocalIndex in the index identifies the network
layer protocol of the addressMapNetworkAddress.

```
      An example of the indexing of this entry is
       addressMapSource.783495.18.4.128.2.6.6.11.1.3.6.1.2.1.2.2.1.1.1.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { addressMapTimeMark, protocolDirLocalIndex,
          addressMapNetworkAddress, addressMapSource }
  ::= { addressMapTable 1 }

AddressMapEntry ::= SEQUENCE {
  addressMapTimeMark              TimeFilter,
  addressMapNetworkAddress          OCTET STRING,
  addressMapSource                OBJECT IDENTIFIER,
  addressMapPhysicalAddress         OCTET STRING,
  addressMapLastChange            TimeStamp
}

addressMapTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A TimeFilter for this entry.  See the TimeFilter textual
      convention to see how this
 works."
  ::= { addressMapEntry 1 }

addressMapNetworkAddress OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "The network address for this relation.

      This is represented as an octet string with
      specific semantics and length as identified
      by the protocolDirLocalIndex component of the
      index.

      For example, if the protocolDirLocalIndex indicates an
      encapsulation of ip, this object is encoded as a length
      octet of 4, followed by the 4 octets of the IP address,
      in network byte order."
  ::= { addressMapEntry 2 }

addressMapSource OBJECT-TYPE
```

```
  SYNTAX      OBJECT IDENTIFIER



  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The interface or port on which the associated network
      address was most recently seen.

     If this address mapping was discovered on an interface, this
     object shall
identify the instance of the ifIndex
     object, defined in [RFC2863], for the desired interface.
     For example, if an entry were to receive data from
     interface #1, this object would be set to ifIndex.1.

     If this address mapping was discovered on a port, this
     object shall identify the instance of the rptrGroupPortIndex
     object, defined in [RFC2108], for the desired port.
     For example, if an entry were to receive data from
     group #1, port #1, this object would be set to
     rptrGroupPortIndex.1.1.

     Note that while the dataSource associated with this entry
     may only point to index objects, this object may at times
     point to repeater port objects.  This situation occurs when
     the dataSource points to an interface that is a locally
     attached repeater and the agent has additional information
     about the source port of traffic seen on that repeater."
  ::= { addressMapEntry 3 }

addressMapPhysicalAddress
 OBJECT-TYPE
  SYNTAX      OCTET STRING
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The last source physical address on which the associated
     network address was seen.  If the protocol of the associated
     network address was encapsulated inside of a network-level or
     higher protocol, this will be the address of the next-lower
     protocol with the addressRecognitionCapable bit enabled and
     will be formatted as specified for that protocol."
  ::= { addressMapEntry 4 }

addressMapLastChange OBJECT-TYPE
  SYNTAX      TimeStamp
```

```
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime at the time this entry was last
        created or the values of the physical address changed.




        This can be used to help detect duplicate address problems, in
        which case this object will be updated frequently."
    ::= { addressMapEntry 5 }

--
-- Network Layer Host Group
--
--
 Counts the amount of traffic sent from and to each network address
-- discovered by the probe.
-- Note that while the hlHostControlTable also has objects that
-- control an optional alHostTable, implementation of the alHostTable is
-- not required to fully implement this group.

hlHostControlTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF HlHostControlEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A list of higher-layer (i.e., non-MAC) host table control
        entries.

        These entries will enable the collection of the network- and
        application-level host tables indexed by network addresses.
        Both the network- and application-level host tables are
        controlled by this table so that they will both be created
        and deleted at the same time, further increasing the ease with
        which they can be implemented as a single datastore.  (Note that
        if an implementation stores application-layer host records
 in
        memory, it can derive network-layer host records from them.)

        Entries in the nlHostTable will be created on behalf of each
        entry in this table.  Additionally, if this probe implements
        the alHostTable, entries in the alHostTable will be created on
        behalf of each entry in this table.

        Implementations are encouraged to add an entry per monitored
        interface upon initialization so that a default collection
```

```
      of host statistics is available."
   ::= { nlHost 1 }

hlHostControlEntry OBJECT-TYPE
   SYNTAX      HlHostControlEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A conceptual row in the hlHostControlTable.

      An example of the indexing of this entry is



      hlHostControlNlDroppedFrames.1"
   INDEX { hlHostControlIndex }
   ::= { hlHostControlTable 1 }

HlHostControlEntry ::= SEQUENCE {
   hlHostControlIndex              Integer32,
   hlHostControlDataSource
    DataSource,
   hlHostControlNlDroppedFrames    Counter32,
   hlHostControlNlInserts          Counter32,
   hlHostControlNlDeletes          Counter32,
   hlHostControlNlMaxDesiredEntries Integer32,
   hlHostControlAlDroppedFrames    Counter32,
   hlHostControlAlInserts          Counter32,
   hlHostControlAlDeletes          Counter32,
   hlHostControlAlMaxDesiredEntries Integer32,
   hlHostControlOwner              OwnerString,
   hlHostControlStatus             RowStatus
}

hlHostControlIndex OBJECT-TYPE
   SYNTAX      Integer32 (1..65535)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An index that uniquely identifies an entry in the
      hlHostControlTable.  Each such entry defines
      a function that discovers hosts on a particular
      interface and places statistics about them in the
      nlHostTable, and optionally in the alHostTable, on
      behalf of this hlHostControlEntry."
   ::= { hlHostControlEntry 1 }

hlHostControlDataSource
```

OBJECT-TYPE
SYNTAX DataSource
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The source of data for the associated host tables.

The statistics in this group reflect all packets
on the local network segment attached to the
identified interface.

This object may not be modified if the associated
hlHostControlStatus object is equal to active(1)."
::= { hlHostControlEntry 2 }

hlHostControlNlDroppedFrames OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to count for the associated
nlHost entries for whatever reason. Most often, this event
occurs when the probe is out of some resources and decides to
shed load from this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that if the nlHostTable is inactive because no protocols
are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { hlHostControlEntry 3 }

hlHostControlNlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlHost entry has been
inserted into the nlHost table. If an entry is inserted, then

deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short
periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 4 }

hlHostControlNlDeletes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry is deleted, then inserted, and then deleted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short
periods of time.

Note that the table size can be determined by subtracting hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 5 }

hlHostControlNlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The maximum number of entries that are desired in the nlHostTable on behalf of this control entry. The probe will not create more than this number of associated entries in the

table but may choose to create fewer entries in this table
for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table. If the associated
hlHostControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."
::= { hlHostControlEntry 6 }

hlHostControlAlDroppedFrames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to count for the associated

alHost entries for whatever reason. Most often, this event
occurs when the probe is out of some resources and decides to
shed load from this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that if the alHostTable is not implemented or is inactive

because no protocols are enabled in the protocol directory,
this value should be 0.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { hlHostControlEntry 7 }

hlHostControlAlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only

```
  STATUS     current
  DESCRIPTION
     "The number of times an alHost entry has been
     inserted into the alHost table.  If an entry is inserted, then
     deleted, and then inserted, this counter will be incremented
     by 2.

     To allow for efficient implementation strategies, agents may
     delay updating this object for short periods of time.  For
     example, an implementation strategy may allow internal
     data structures to differ from those visible via SNMP for
     short periods of time.  This counter may reflect the internal
     data structures for those short periods of time.

     Note that the table size can
 be determined by subtracting
     hlHostControlAlDeletes from hlHostControlAlInserts."
  ::= { hlHostControlEntry 8 }

hlHostControlAlDeletes OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times an alHost entry has been
     deleted from the alHost table (for any reason).  If an entry
     is deleted, then inserted, and then deleted, this counter will
     be incremented by 2.

     To allow for efficient implementation strategies, agents may
     delay updating this object for short periods of time.  For



     example, an implementation strategy may allow internal
     data structures to differ from those visible via SNMP for
     short periods of time.  This counter may reflect the internal
     data structures for those short periods of time.

     Note that the table size can be determined by subtracting
     hlHostControlAlDeletes from hlHostControlAlInserts."

 ::= { hlHostControlEntry 9 }

hlHostControlAlMaxDesiredEntries OBJECT-TYPE
  SYNTAX      Integer32 (-1..2147483647)
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
      "The maximum number of entries that are desired in the alHost
      table on behalf of this control entry.  The probe will not
      create more than this number of associated entries in the
      table but may choose to create fewer entries in this table
      for any reason, including the lack of resources.

      If this object is set to a value less than the current number
      of entries, enough entries are chosen in an
      implementation-dependent manner and deleted so that the number
      of entries in the table equals the value of this object.

      If this value is set to -1, the probe may create any number
      of entries in this table.  If the associated
      hlHostControlStatus object is equal to 'active', this
      object may not be modified.


    This object may be used to control how resources are allocated
      on the probe for the various RMON functions."
  ::= { hlHostControlEntry 10 }

hlHostControlOwner OBJECT-TYPE
  SYNTAX      OwnerString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
  ::= { hlHostControlEntry 11 }

hlHostControlStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION



      "The status of this hlHostControlEntry.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value.

      If this object is not equal to active(1), all associated
      entries in the nlHostTable and alHostTable shall be deleted."
  ::= { hlHostControlEntry 12 }
```

```
nlHostTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF NlHostEntry
  MAX-ACCESS  not-accessible
  STATUS
  current
  DESCRIPTION
     "A collection of statistics for a particular network layer
     address that has been discovered on an interface of this
     device.

     The probe will populate this table for all network layer
     protocols in the protocol directory table whose value of
     protocolDirHostConfig is equal to supportedOn(3), and
     will delete any entries whose protocolDirEntry is deleted or
     has a protocolDirHostConfig value of supportedOff(2).

     The probe will add to this table all addresses seen
     as the source or destination address in all packets with no
     MAC errors, and will increment octet and packet counts in the
     table for all packets with no MAC errors."
::= { nlHost 2 }

nlHostEntry OBJECT-TYPE
  SYNTAX      NlHostEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the nlHostTable.

     The hlHostControlIndex value in the index identifies the
      hlHostControlEntry on whose behalf this entry was created.
     The protocolDirLocalIndex value in the index identifies the
     network layer protocol of the nlHostAddress.

     An example of the indexing of this entry is
     nlHostOutPkts.1.783495.18.4.128.2.6.6.

     Note that some combinations of index values may result in an
     index that exceeds 128 sub-identifiers in length, which exceeds
     the maximum for the SNMP protocol.  Implementations should take



     care to avoid such combinations."
  INDEX { hlHostControlIndex, nlHostTimeMark,
          protocolDirLocalIndex, nlHostAddress }
  ::= { nlHostTable 1 }
```

```
NlHostEntry ::= SEQUENCE {
  nlHostTimeMark             TimeFilter,
  nlHostAddress              OCTET STRING,
  nlHostInPkts               ZeroBasedCounter32,
  nlHostOutPkts              ZeroBasedCounter32,
  nlHostInOctets             ZeroBasedCounter32,
  nlHostOutOctets            ZeroBasedCounter32,
   nlHostOutMacNonUnicastPkts  ZeroBasedCounter32,
  nlHostCreateTime           LastCreateTime
}

nlHostTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlHostEntry 1 }

nlHostAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network address for this nlHostEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlHostEntry 2 }

nlHostInPkts OBJECT-TYPE

  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets without errors transmitted to



     this address since it was added to the nlHostTable.  Note that
```

```
      this is the number of link-layer packets, so if a single
      network-layer packet is fragmented into several link-layer
      frames, this counter is incremented several times."
    ::= { nlHostEntry 3 }

nlHostOutPkts OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The number of packets without errors transmitted by
      this address since it was added to the nlHostTable.  Note that
      this is the number of link-layer packets, so if a single
      network-layer packet is fragmented into several link-layer
      frames, this counter is incremented several times."
    ::= { nlHostEntry 4 }

nlHostInOctets OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS
   read-only
    STATUS      current
    DESCRIPTION
      "The number of octets transmitted to this address
      since it was added to the nlHostTable (excluding
      framing bits, but including FCS octets), excluding
      octets in packets that contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
    ::= { nlHostEntry 5 }

nlHostOutOctets OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The number of octets transmitted by this address
      since it was added to the nlHostTable (excluding
      framing bits, but including FCS octets), excluding
      octets in packets that contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
    ::=
```

{ nlHostEntry 6 }

nlHostOutMacNonUnicastPkts OBJECT-TYPE
  SYNTAX   ZeroBasedCounter32
  MAX-ACCESS read-only
  STATUS   current
  DESCRIPTION
     "The number of packets without errors transmitted by this
     address that were directed to any MAC broadcast addresses
     or to any MAC multicast addresses since this host was
     added to the nlHostTable. Note that this is the number of
     link-layer packets, so if a single network-layer packet is
     fragmented into several link-layer frames, this counter is
     incremented several times."
  ::= { nlHostEntry 7 }

nlHostCreateTime OBJECT-TYPE
  SYNTAX   LastCreateTime
  MAX-ACCESS read-only
  STATUS   current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { nlHostEntry 8 }

--
-- Network Layer Matrix
 Group
--
-- Counts the amount of traffic sent between each pair of network
-- addresses discovered by the probe.
-- Note that while the hlMatrixControlTable also has objects that
-- control optional alMatrixTables, implementation of the
-- alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE
  SYNTAX   SEQUENCE OF HlMatrixControlEntry
  MAX-ACCESS not-accessible
  STATUS   current
  DESCRIPTION
     "A list of higher-layer (i.e., non-MAC) matrix control entries.

     These entries will enable the collection of the network- and
     application-level matrix tables containing conversation

```
      statistics indexed by pairs of network addresses.
      Both the network- and application-level matrix tables are
      controlled by this table so that they will both be created
      and deleted at the same time, further increasing the ease with
      which they can be implemented as a single datastore.  (Note that
       if an implementation stores application-layer matrix records



      in memory, it can derive network-layer matrix records from
      them.)

      Entries in the nlMatrixSDTable and nlMatrixDSTable will be
      created on behalf of each entry in this table.  Additionally,
      if this probe implements the alMatrix tables, entries in the
      alMatrix tables will be created on behalf of each entry in
      this table."
  ::= { nlMatrix 1 }

hlMatrixControlEntry OBJECT-TYPE
  SYNTAX      HlMatrixControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the hlMatrixControlTable.

     An example of indexing of this entry is
     hlMatrixControlNlDroppedFrames.1"
  INDEX { hlMatrixControlIndex }
  ::= { hlMatrixControlTable 1 }

HlMatrixControlEntry ::= SEQUENCE {
  hlMatrixControlIndex              Integer32,
  hlMatrixControlDataSource         DataSource,
  hlMatrixControlNlDroppedFrames
      Counter32,
  hlMatrixControlNlInserts          Counter32,
  hlMatrixControlNlDeletes          Counter32,
  hlMatrixControlNlMaxDesiredEntries    Integer32,
  hlMatrixControlAlDroppedFrames    Counter32,
  hlMatrixControlAlInserts          Counter32,
  hlMatrixControlAlDeletes          Counter32,
  hlMatrixControlAlMaxDesiredEntries    Integer32,
  hlMatrixControlOwner              OwnerString,
  hlMatrixControlStatus             RowStatus
}

hlMatrixControlIndex OBJECT-TYPE
```

```
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "An index that uniquely identifies an entry in the
      hlMatrixControlTable.  Each such entry defines
      a function that discovers conversations on a particular
      interface and places statistics about them in the
      nlMatrixSDTable and the nlMatrixDSTable, and optionally the
      alMatrixSDTable and alMatrixDSTable, on
 behalf of this




      hlMatrixControlEntry."
  ::= { hlMatrixControlEntry 1 }

hlMatrixControlDataSource OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The source of the data for the associated matrix tables.

      The statistics in this group reflect all packets
      on the local network segment attached to the
      identified interface.

      This object may not be modified if the associated
      hlMatrixControlStatus object is equal to active(1)."
  ::= { hlMatrixControlEntry 2 }

hlMatrixControlNlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the probe
      is out of
 some resources and decides to shed load from this
      collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.
```

Note that if the nlMatrixTables are inactive because no
protocols are enabled in the protocol directory, this value
should be 0.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { hlMatrixControlEntry 3 }

hlMatrixControlNlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlMatrix entry has been
inserted into the nlMatrix tables. If an entry is inserted,

then deleted, and then inserted, this counter will be
incremented by 2. The addition of a conversation into both
the nlMatrixSDTable and nlMatrixDSTable shall be counted as
two insertions (even though every addition into one table must
be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short periods of time.

Note that the sum of then nlMatrixSDTable and nlMatrixDSTable
sizes can be determined by subtracting
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
::= { hlMatrixControlEntry 4 }

hlMatrixControlNlDeletes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlMatrix entry has been
deleted from the nlMatrix tables (for any reason). If an
entry is deleted, then inserted, and then deleted, this
counter
will be incremented by 2. The deletion of a
conversation from both the nlMatrixSDTable and nlMatrixDSTable
shall be counted as two deletions (even though every deletion

from one table must be accompanied by a deletion from the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The
maximum number of entries that are desired in the nlMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this table. If the associated hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."
::= { hlMatrixControlEntry 6 }

hlMatrixControlAlDroppedFrames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for this entry for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the alMatrixTables are not implemented or are inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."
::= { hlMatrixControlEntry 7 }

hlMatrixControlAlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The number of times an alMatrix entry has been inserted into the alMatrix tables. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2. The addition of a conversation into both the alMatrixSDTable and alMatrixDSTable shall be counted as two insertions (even though every addition into one table must be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
::= { hlMatrixControlEntry
8 }

hlMatrixControlAlDeletes OBJECT-TYPE
SYNTAX Counter32

```
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The number of times an alMatrix entry has been
        deleted from the alMatrix tables.  If an entry is deleted,
        then inserted, and then deleted, this counter will be
        incremented by 2.  The deletion of a conversation from both
        the alMatrixSDTable and alMatrixDSTable shall be counted as
        two deletions (even though every deletion from one table must
        be accompanied by a deletion from the other).

        To allow for efficient implementation strategies, agents may
        delay updating this object for short periods of time.  For
        example, an implementation strategy may allow internal
        data structures to differ from those visible via SNMP for
        short periods of time.  This counter may reflect the internal
        data structures for those short periods of time.

        Note
    that the table size can be determined by subtracting
        hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
    ::= { hlMatrixControlEntry 9 }

hlMatrixControlAlMaxDesiredEntries OBJECT-TYPE
    SYNTAX      Integer32 (-1..2147483647)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION



        "The maximum number of entries that are desired in the
        alMatrix tables on behalf of this control entry.  The probe
        will not create more than this number of associated entries in
        the table but may choose to create fewer entries in this
        table for any reason, including the lack of resources.

        If this object is set to a value less than the current number
        of entries, enough entries are chosen in an
        implementation-dependent manner and deleted so that the number
        of entries in the table equals the value of this object.

        If this value is set to -1, the probe may create any number
        of entries in this
    table.  If the associated
        hlMatrixControlStatus object is equal to 'active', this
        object may not be modified.
```

```
      This object may be used to control how resources are allocated
      on the probe for the various RMON functions."
    ::= { hlMatrixControlEntry 10 }

hlMatrixControlOwner OBJECT-TYPE
    SYNTAX      OwnerString
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
    ::= { hlMatrixControlEntry 11 }

hlMatrixControlStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this hlMatrixControlEntry.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value.

      If this object is not equal to active(1), all
      associated entries in the nlMatrixSDTable,
      nlMatrixDSTable, alMatrixSDTable,
   and alMatrixDSTable
      shall be deleted by the agent."
    ::= { hlMatrixControlEntry 12 }

nlMatrixSDTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF NlMatrixSDEntry
    MAX-ACCESS  not-accessible



    STATUS      current
    DESCRIPTION
      "A list of traffic matrix entries that collect statistics for
      conversations between two network-level addresses.  This table
      is indexed first by the source address and then by the
      destination address to make it convenient to collect all
      conversations from a particular address.

      The probe will populate this table for all network layer
      protocols in the protocol directory table whose value of
      protocolDirMatrixConfig is equal to supportedOn(3), and
      will delete any entries whose protocolDirEntry is deleted or
```

```
      has a protocolDirMatrixConfig value of supportedOff(2).

      The probe will add to this table all pairs of addresses
      seen in all packets with no
 MAC errors and will increment
      octet and packet counts in the table for all packets with no
      MAC errors.

      Further, this table will only contain entries that have a
      corresponding entry in the nlMatrixDSTable with the same
      source address and destination address."
  ::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE
  SYNTAX      NlMatrixSDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the nlMatrixSDTable.

      The hlMatrixControlIndex value in the index identifies the
      hlMatrixControlEntry on whose behalf this entry was created.
      The protocolDirLocalIndex value in the index identifies the
      network-layer protocol of the nlMatrixSDSourceAddress and
      nlMatrixSDDestAddress.

      An example of the indexing of this table is
      nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

      Note that some combinations of index values may result in an

 index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,
          protocolDirLocalIndex,
          nlMatrixSDSourceAddress, nlMatrixSDDestAddress }
  ::= { nlMatrixSDTable 1 }



NlMatrixSDEntry ::= SEQUENCE {
  nlMatrixSDTimeMark            TimeFilter,
  nlMatrixSDSourceAddress       OCTET STRING,
  nlMatrixSDDestAddress         OCTET STRING,
  nlMatrixSDPkts              ZeroBasedCounter32,
  nlMatrixSDOctets             ZeroBasedCounter32,
  nlMatrixSDCreateTime         LastCreateTime
```

```
}

nlMatrixSDTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlMatrixSDEntry 1 }

nlMatrixSDSourceAddress OBJECT-TYPE
   SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network source address for this nlMatrixSDEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlMatrixSDEntry 2 }

nlMatrixSDDestAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network destination address for this
     nlMatrixSDEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

      For example, if the protocolDirLocalIndex indicates an



     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlMatrixSDEntry 3 }
```

```
nlMatrixSDPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets without errors transmitted from the
     source address to the destination address since this entry was
     added to the nlMatrixSDTable.  Note that this is the number of
     link-layer packets, so if a single network-layer packet is
     fragmented into several link-layer frames, this counter is
     incremented several times."
  ::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of octets transmitted from the source address to

     the destination address since this entry was added to the
     nlMatrixSDTable (excluding framing bits, but
     including FCS octets), excluding octets in packets that
     contained errors.

     Note that this doesn't count just those octets in the particular
     protocol frames but includes the entire packet that contained
     the protocol."
  ::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { nlMatrixSDEntry 6 }


-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE
```

```
  SYNTAX      SEQUENCE OF NlMatrixDSEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A list of traffic matrix
 entries that collect statistics for
      conversations between two network-level addresses.  This table
      is indexed first by the destination address and then by the
      source address to make it convenient to collect all
      conversations to a particular address.

      The probe will populate this table for all network layer
      protocols in the protocol directory table whose value of
      protocolDirMatrixConfig is equal to supportedOn(3), and
      will delete any entries whose protocolDirEntry is deleted or
      has a protocolDirMatrixConfig value of supportedOff(2).

      The probe will add to this table all pairs of addresses
      seen in all packets with no MAC errors and will increment
      octet and packet counts in the table for all packets with no
      MAC errors.

      Further, this table will only contain entries that have a
      corresponding entry in the nlMatrixSDTable with the same
      source address and destination
 address."
  ::= { nlMatrix 3 }

nlMatrixDSEntry OBJECT-TYPE
  SYNTAX      NlMatrixDSEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the nlMatrixDSTable.

      The hlMatrixControlIndex value in the index identifies the
      hlMatrixControlEntry on whose behalf this entry was created.
      The protocolDirLocalIndex value in the index identifies the
      network-layer protocol of the nlMatrixDSSourceAddress and
      nlMatrixDSDestAddress.

      An example of the indexing of this table is
      nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
```

```
  INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,
          protocolDirLocalIndex,



          nlMatrixDSDestAddress,
 nlMatrixDSSourceAddress }
  ::= { nlMatrixDSTable 1 }

NlMatrixDSEntry ::= SEQUENCE {
  nlMatrixDSTimeMark              TimeFilter,
  nlMatrixDSSourceAddress          OCTET STRING,
  nlMatrixDSDestAddress           OCTET STRING,
  nlMatrixDSPkts                 ZeroBasedCounter32,
  nlMatrixDSOctets                ZeroBasedCounter32,
  nlMatrixDSCreateTime            LastCreateTime
}

nlMatrixDSTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlMatrixDSEntry 1 }

nlMatrixDSSourceAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network source address for this nlMatrixDSEntry.

     This is represented as an octet string with
     specific semantics and
 length as identified
     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlMatrixDSEntry 2 }

nlMatrixDSDestAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
```

```
    STATUS      current
    DESCRIPTION
        "The network destination address for this
        nlMatrixDSEntry.

        This is represented as an octet string with
        specific semantics and length as identified



        by the protocolDirLocalIndex component of the index.

        For example, if the protocolDirLocalIndex indicates an
        encapsulation of IP, this object is encoded as a length
        octet of 4, followed by the 4 octets of the IP address,
        in network byte order."
    ::= { nlMatrixDSEntry 3 }

nlMatrixDSPkts
 OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of packets without errors transmitted from the
        source address to the destination address since this entry was
        added to the nlMatrixDSTable.  Note that this is the number of
        link-layer packets, so if a single network-layer packet is
        fragmented into several link-layer frames, this counter is
        incremented several times."
    ::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of octets transmitted from the source address
        to the destination address since this entry was added to the
        nlMatrixDSTable (excluding framing bits, but
        including FCS octets), excluding octets in packets that
        contained errors.

        Note that this doesn't count just those octets in the particular
         protocol frames but includes the entire packet that contained
        the protocol."
    ::= { nlMatrixDSEntry 5 }
```

```
nlMatrixDSCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { nlMatrixDSEntry 6 }

nlMatrixTopNControlTable OBJECT-TYPE



  SYNTAX      SEQUENCE OF NlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A set of parameters that control the creation of a
     report of the top N matrix entries according to
     a selected metric."
  ::= { nlMatrix 4 }

nlMatrixTopNControlEntry OBJECT-TYPE
  SYNTAX      NlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row
 in the nlMatrixTopNControlTable.

     An example of the indexing of this table is
     nlMatrixTopNControlDuration.3"
  INDEX { nlMatrixTopNControlIndex }
  ::= { nlMatrixTopNControlTable 1 }

NlMatrixTopNControlEntry ::= SEQUENCE {
  nlMatrixTopNControlIndex           Integer32,
  nlMatrixTopNControlMatrixIndex     Integer32,
  nlMatrixTopNControlRateBase        INTEGER,
  nlMatrixTopNControlTimeRemaining   Integer32,
  nlMatrixTopNControlGeneratedReports Counter32,
  nlMatrixTopNControlDuration        Integer32,
  nlMatrixTopNControlRequestedSize   Integer32,
  nlMatrixTopNControlGrantedSize     Integer32,
  nlMatrixTopNControlStartTime       TimeStamp,
  nlMatrixTopNControlOwner           OwnerString,
  nlMatrixTopNControlStatus          RowStatus
```

```
}

nlMatrixTopNControlIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "An index that uniquely identifies an entry
      in the nlMatrixTopNControlTable.  Each such
     entry defines one topN report prepared for
     one interface."
  ::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)



  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The nlMatrix[SD/DS] table for which a topN report will be
     prepared on behalf of this entry.  The nlMatrix[SD/DS] table
     is identified by the value of the hlMatrixControlIndex
     for that table - that value is used here to identify the
     particular table.

     This object may not be modified if the associated
     nlMatrixTopNControlStatus object is equal to active(1)."
  ::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE
  SYNTAX      INTEGER {
                nlMatrixTopNPkts(1),
                nlMatrixTopNOctets(2),
                nlMatrixTopNHighCapacityPkts(3),
                nlMatrixTopNHighCapacityOctets(4)
              }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The variable for each nlMatrix[SD/DS] entry that the
     nlMatrixTopNEntries are sorted by, as well as a control
     for the table that the results will be reported in.

     This object may not be modified if the associated
     nlMatrixTopNControlStatus object is equal to active(1).
```

```
      If this value is less than or equal to 2, when the report
      is prepared, entries are created in the nlMatrixTopNTable
      associated with this object.
      If this value is greater than or equal to 3, when the report
      is prepared, entries are created in the
      nlMatrixTopNHighCapacityTable associated with this object."
    ::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE
    SYNTAX     Integer32 (0..2147483647)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The number of seconds left
 in the report currently
      being collected.  When this object is modified by
      the management station, a new collection is started,
      possibly aborting a currently running report.  The
      new value is used as the requested duration of this




      report and is immediately loaded into the associated
      nlMatrixTopNControlDuration object.

      When the report finishes, the probe will automatically
      start another collection with the same initial value
      of nlMatrixTopNControlTimeRemaining.  Thus, the management
      station may simply read the resulting reports repeatedly,
      checking the startTime and duration each time to ensure that a
      report was not missed or that the report parameters were not
      changed.

      While the value of this object is non-zero, it decrements
      by one per second until it reaches zero.  At the time
      that this object decrements to zero, the report is made
      accessible
 in the nlMatrixTopNTable, overwriting any report
      that may be there.

      When this object is modified by the management station, any
      associated entries in the nlMatrixTopNTable shall be deleted.

      (Note that this is a different algorithm than the one used
      in the hostTopNTable)."
    DEFVAL { 1800 }
    ::= { nlMatrixTopNControlEntry 4 }
```

```
nlMatrixTopNControlGeneratedReports OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of reports that have been generated by this entry."
  ::= { nlMatrixTopNControlEntry 5 }

nlMatrixTopNControlDuration OBJECT-TYPE
  SYNTAX     Integer32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of seconds that this report has collected
     during the last sampling interval.

     When the associated nlMatrixTopNControlTimeRemaining object is
     set, this object shall be set by the probe to the
     same
 value and shall not be modified until the next
     time the nlMatrixTopNControlTimeRemaining is set.

     This value shall be zero if no reports have been
     requested for this nlMatrixTopNControlEntry."



  ::= { nlMatrixTopNControlEntry 6 }

nlMatrixTopNControlRequestedSize OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The maximum number of matrix entries requested for this report.

     When this object is created or modified, the probe
     should set nlMatrixTopNControlGrantedSize as closely to this
     object as possible for the particular probe
     implementation and available resources."
  DEFVAL { 150 }
  ::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

"The maximum number of matrix entries in this report.

When
the associated nlMatrixTopNControlRequestedSize object is
created or modified, the probe should set this
object as closely to the requested value as
possible for the particular implementation and
available resources. The probe must not lower this
value except as a side-effect of a set to the associated
nlMatrixTopNControlRequestedSize object.

If the value of nlMatrixTopNControlRateBase is equal to
nlMatrixTopNPkts, when the next topN report is generated,
matrix entries with the highest value of nlMatrixTopNPktRate
shall be placed in this table in decreasing order of this rate
until there is no more room or until there are no more
matrix entries.

If the value of nlMatrixTopNControlRateBase is equal to
nlMatrixTopNOctets, when the next topN report is generated,
matrix entries with the highest value of nlMatrixTopNOctetRate
shall be placed in this table in decreasing
order of this rate
until there is no more room or until there are no more
matrix entries.

It is an implementation-specific matter how entries with the
same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are
sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."
::= { nlMatrixTopNControlEntry 8 }

nlMatrixTopNControlStartTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this topN report was
last started. In other words, this is the time that
the associated nlMatrixTopNControlTimeRemaining object was
modified to start the requested report or the time
the report was last automatically (re)started.

This object may be used by the management station to
determine whether a report was missed."

::= { nlMatrixTopNControlEntry 9 }

nlMatrixTopNControlOwner
OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is
therefore using the resources assigned to it."
::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value.

If this object is not equal to active(1), all
associated entries in the nlMatrixTopNTable shall be deleted
by the agent."
::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE
SYNTAX SEQUENCE OF NlMatrixTopNEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A set of statistics for those network-layer matrix entries

that have
counted the highest number of octets or packets."
::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE
SYNTAX NlMatrixTopNEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A conceptual row in the nlMatrixTopNTable.

The nlMatrixTopNControlIndex value in the index identifies the

```
      nlMatrixTopNControlEntry on whose behalf this entry was
      created.

      An example of the indexing of this table is
      nlMatrixTopNPktRate.3.10"
    INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }
    ::= { nlMatrixTopNTable 1 }

NlMatrixTopNEntry ::= SEQUENCE {
    nlMatrixTopNIndex               Integer32,
    nlMatrixTopNProtocolDirLocalIndex Integer32,
    nlMatrixTopNSourceAddress       OCTET STRING,
    nlMatrixTopNDestAddress         OCTET STRING,
    nlMatrixTopNPktRate             Gauge32,
    nlMatrixTopNReversePktRate      Gauge32,
    nlMatrixTopNOctetRate           Gauge32,
    nlMatrixTopNReverseOctetRate
      Gauge32
}

nlMatrixTopNIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..65535)
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
      "An index that uniquely identifies an entry in
      the nlMatrixTopNTable among those in the same report.
      This index is between 1 and N, where N is the
      number of entries in this report.

      If the value of nlMatrixTopNControlRateBase is equal to
      nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall
      be assigned to entries with decreasing values of
      nlMatrixTopNPktRate until index N is assigned or there are no
      more nlMatrixTopNEntries.

      If the value of nlMatrixTopNControlRateBase is equal to
      nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex




      shall be assigned to entries with decreasing values of
      nlMatrixTopNOctetRate until index N is assigned or there are
      no more nlMatrixTopNEntries."
    ::= { nlMatrixTopNEntry 1 }

nlMatrixTopNProtocolDirLocalIndex
```

```
 OBJECT-TYPE
   SYNTAX     Integer32 (1..2147483647)
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The protocolDirLocalIndex of the network-layer protocol of
      this entry's network address."
   ::= { nlMatrixTopNEntry 2 }

nlMatrixTopNSourceAddress OBJECT-TYPE
   SYNTAX     OCTET STRING  (SIZE (1..255))
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The network-layer address of the source host in this
      conversation.

      This is represented as an octet string with
      specific semantics and length as identified
      by the associated nlMatrixTopNProtocolDirLocalIndex.

      For example, if the protocolDirLocalIndex indicates an
      encapsulation of IP, this object is encoded as a length
      octet of 4, followed by the 4 octets of the IP address,
      in network byte order."
   ::= { nlMatrixTopNEntry 3 }

nlMatrixTopNDestAddress OBJECT-TYPE
   SYNTAX     OCTET
 STRING  (SIZE (1..255))
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The network-layer address of the destination host in this
      conversation.

      This is represented as an octet string with
      specific semantics and length as identified
      by the associated nlMatrixTopNProtocolDirLocalIndex.

      For example, if the nlMatrixTopNProtocolDirLocalIndex
      indicates an encapsulation of IP, this object is encoded as a
      length octet of 4, followed by the 4 octets of the IP address,
      in network byte order."



   ::= { nlMatrixTopNEntry 4 }
```

```
nlMatrixTopNPktRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of packets seen from the source host
     to the destination host during this sampling interval, counted
     using the rules for counting the nlMatrixSDPkts object.
     If the value of nlMatrixTopNControlRateBase is
     nlMatrixTopNPkts,
 this variable will be used to sort this
     report."
  ::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of packets seen from the destination host to the
     source host during this sampling interval, counted
     using the rules for counting the nlMatrixSDPkts object.  (Note
     that the corresponding nlMatrixSDPkts object selected is the
     one whose source address is equal to nlMatrixTopNDestAddress
     and whose destination address is equal to
     nlMatrixTopNSourceAddress.)

     Note that if the value of nlMatrixTopNControlRateBase is equal
     to nlMatrixTopNPkts, the sort of topN entries is based
     entirely on nlMatrixTopNPktRate, and not on the value of this
     object."
  ::= { nlMatrixTopNEntry 6 }

nlMatrixTopNOctetRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
   DESCRIPTION
     "The number of octets seen from the source host
     to the destination host during this sampling interval, counted
     using the rules for counting the nlMatrixSDOctets object.  If
     the value of nlMatrixTopNControlRateBase is
     nlMatrixTopNOctets, this variable will be used to sort this
     report."
  ::= { nlMatrixTopNEntry 7 }

nlMatrixTopNReverseOctetRate OBJECT-TYPE
```

```
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The number of octets seen from the destination host to the
      source host during this sampling interval, counted
      using the rules for counting the nlMatrixDSOctets object.  (Note
      that the corresponding nlMatrixSDOctets object selected is the
      one whose source address is equal to nlMatrixTopNDestAddress
      and whose destination address is equal to
      nlMatrixTopNSourceAddress.)

      Note that if the value of nlMatrixTopNControlRateBase
 is equal
      to nlMatrixTopNOctets, the sort of topN entries is based
      entirely on nlMatrixTopNOctetRate, and not on the value of
      this object."
  ::= { nlMatrixTopNEntry 8 }

-- Application Layer Functions
--
-- The application layer host, matrix, and matrixTopN functions report
-- on protocol usage at the network layer or higher.  Note that the
-- use of the term application layer does not imply that only
-- application-layer protocols are counted, rather it means that
-- protocols up to and including the application layer are supported.

--
-- Application Layer Host Group
--
-- Counts the amount of traffic, by protocol, sent from and to each
-- network address discovered by the probe.
-- Implementation of this group requires implementation of the Network
-- Layer Host Group.

alHostTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlHostEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A collection of statistics for a particular
 protocol from a
      particular network address that has been discovered on an
      interface of this device.
```

```
      The probe will populate this table for all protocols in the
      protocol directory table whose value of
      protocolDirHostConfig is equal to supportedOn(3), and
      will delete any entries whose protocolDirEntry is deleted or
      has a protocolDirHostConfig value of supportedOff(2).



      The probe will add to this table all addresses
      seen as the source or destination address in all packets with
      no MAC errors and will increment octet and packet counts in
      the table for all packets with no MAC errors.  Further,
      entries will only be added to this table if their address
      exists in the nlHostTable and will be deleted from this table
      if their address is deleted from the nlHostTable."
  ::= { alHost 1 }

alHostEntry OBJECT-TYPE
  SYNTAX      AlHostEntry
  MAX-ACCESS  not-accessible
  STATUS
    current
  DESCRIPTION
      "A conceptual row in the alHostTable.

      The hlHostControlIndex value in the index identifies the
      hlHostControlEntry on whose behalf this entry was created.
      The first protocolDirLocalIndex value in the index identifies
      the network-layer protocol of the address.
      The nlHostAddress value in the index identifies the network-
      layer address of this entry.
      The second protocolDirLocalIndex value in the index identifies
      the protocol that is counted by this entry.

      An example of the indexing in this entry is
      alHostOutPkts.1.783495.18.4.128.2.6.6.34.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { hlHostControlIndex, alHostTimeMark,
          protocolDirLocalIndex,
 nlHostAddress,
          protocolDirLocalIndex }
  ::= { alHostTable 1 }

AlHostEntry ::= SEQUENCE {
```

```
  alHostTimeMark              TimeFilter,
  alHostInPkts               ZeroBasedCounter32,
  alHostOutPkts               ZeroBasedCounter32,
  alHostInOctets              ZeroBasedCounter32,
  alHostOutOctets             ZeroBasedCounter32,
  alHostCreateTime            LastCreateTime
}

alHostTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter



  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets of this protocol type without errors
     transmitted to this address since it was added to the
     alHostTable.  Note that this is the number
 of link-layer
     packets, so if a single network-layer packet is fragmented
     into several link-layer frames, this counter is incremented
     several times."
  ::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets of this protocol type without errors
     transmitted by this address since it was added to the
     alHostTable.  Note that this is the number of link-layer
     packets, so if a single network-layer packet is fragmented
     into several link-layer frames, this counter is incremented
     several times."
   ::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE
```

```
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted to this address
      of this protocol type since it was added to the
      alHostTable (excluding framing bits, but
 including
      FCS octets), excluding octets in packets that
      contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::= { alHostEntry 4 }



alHostOutOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted by this address
      of this protocol type since it was added to the
      alHostTable (excluding framing bits, but including
      FCS octets), excluding octets in packets that
      contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The value
 of sysUpTime when this entry was last activated.
      This can be used by the management station to ensure that the
      entry has not been deleted and recreated between polls."
  ::= { alHostEntry 6 }

--
-- Application Layer Matrix Group
--
```

```
-- Counts the amount of traffic, by protocol, sent between each pair
-- of network addresses discovered by the probe.
-- Implementation of this group requires implementation of the Network
-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlMatrixSDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A list of application traffic matrix entries that collect
     statistics for conversations of a particular protocol between
     two network-level addresses.  This table is indexed first by
     the source address and then by the destination address to make
     it convenient to collect all statistics from a particular
     address.

     The probe will populate
 this table for all protocols in the
     protocol directory table whose value of



     protocolDirMatrixConfig is equal to supportedOn(3), and
     will delete any entries whose protocolDirEntry is deleted or
     has a protocolDirMatrixConfig value of supportedOff(2).

     The probe will add to this table all pairs of addresses for
     all protocols seen in all packets with no MAC errors and will
     increment octet and packet counts in the table for all packets
     with no MAC errors.  Further, entries will only be added to
     this table if their address pair exists in the nlMatrixSDTable
     and will be deleted from this table if the address pair is
     deleted from the nlMatrixSDTable."
  ::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE
  SYNTAX      AlMatrixSDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the alMatrixSDTable.

     The hlMatrixControlIndex value in the index
 identifies the
     hlMatrixControlEntry on whose behalf this entry was created.
     The first protocolDirLocalIndex value in the index identifies
     the network-layer protocol of the nlMatrixSDSourceAddress and
```

```
      nlMatrixSDDestAddress.
      The nlMatrixSDSourceAddress value in the index identifies the
      network-layer address of the source host in this conversation.
      The nlMatrixSDDestAddress value in the index identifies the
      network-layer address of the destination host in this
      conversation.
      The second protocolDirLocalIndex value in the index identifies
      the protocol that is counted by this entry.

      An example of the indexing of this entry is
      alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should
 take
      care to avoid such combinations."
  INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,
          protocolDirLocalIndex,
          nlMatrixSDSourceAddress, nlMatrixSDDestAddress,
          protocolDirLocalIndex }
  ::= { alMatrixSDTable 1 }

AlMatrixSDEntry ::= SEQUENCE {
  alMatrixSDTimeMark              TimeFilter,



  alMatrixSDPkts                  ZeroBasedCounter32,
  alMatrixSDOctets                ZeroBasedCounter32,
  alMatrixSDCreateTime            LastCreateTime
}

alMatrixSDTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A TimeFilter for this entry.  See the TimeFilter textual
      convention to see how this works."
  ::= { alMatrixSDEntry 1 }

alMatrixSDPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets of this protocol type without errors
```

transmitted
from the source address to the destination address
since this entry was added to the alMatrixSDTable. Note that this is the number of link-layer packets, so if a single network-layer packet is fragmented into several link-layer frames, this counter is incremented several times."
::= { alMatrixSDEntry 2 }

alMatrixSDOctets OBJECT-TYPE
SYNTAX ZeroBasedCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets in packets of this protocol type transmitted from the source address to the destination address since this entry was added to the alMatrixSDTable (excluding framing bits, but including FCS octets), excluding octets in packets that contained errors.

Note that this doesn't count just those octets in the particular protocol frames but includes the entire packet that contained the protocol."
::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime
OBJECT-TYPE
SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The value of sysUpTime when this entry was last activated. This can be used by the management station to ensure that the entry has not been deleted and recreated between polls."
::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE
SYNTAX SEQUENCE OF AlMatrixDSEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A list of application traffic matrix entries that collect statistics for conversations of a particular protocol between two network-level addresses. This table is indexed first by

the destination address and then by the source address to make
it convenient to collect all statistics to a particular
address.

The probe will populate this table for all protocols in the
protocol directory
table whose value of
protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses for
all protocols seen in all packets with no MAC errors and will
increment octet and packet counts in the table for all packets
with no MAC errors. Further, entries will only be added to
this table if their address pair exists in the nlMatrixDSTable
and will be deleted from this table if the address pair is
deleted from the nlMatrixDSTable."
::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE
SYNTAX AlMatrixDSEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A conceptual row in the alMatrixDSTable.

The hlMatrixControlIndex value in the index identifies the
hlMatrixControlEntry on whose behalf
this entry was created.
The first protocolDirLocalIndex value in the index identifies
the network-layer protocol of the alMatrixDSSourceAddress and
alMatrixDSDestAddress.
The nlMatrixDSDestAddress value in the index identifies the
network-layer address of the destination host in this

conversation.
The nlMatrixDSSourceAddress value in the index identifies the
network-layer address of the source host in this conversation.
The second protocolDirLocalIndex value in the index identifies
the protocol that is counted by this entry.

An example of the indexing of this entry is
alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

Note that some combinations of index values may result in an

```
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
   INDEX { hlMatrixControlIndex,
 alMatrixDSTimeMark,
          protocolDirLocalIndex,
          nlMatrixDSDestAddress, nlMatrixDSSourceAddress,
          protocolDirLocalIndex }
   ::= { alMatrixDSTable 1 }

AlMatrixDSEntry ::= SEQUENCE {
   alMatrixDSTimeMark              TimeFilter,
   alMatrixDSPkts                 ZeroBasedCounter32,
   alMatrixDSOctets                ZeroBasedCounter32,
   alMatrixDSCreateTime            LastCreateTime
}

alMatrixDSTimeMark OBJECT-TYPE
   SYNTAX      TimeFilter
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A TimeFilter for this entry.  See the TimeFilter textual
      convention to see how this works."
   ::= { alMatrixDSEntry 1 }

alMatrixDSPkts OBJECT-TYPE
   SYNTAX      ZeroBasedCounter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of packets of this protocol type without errors
      transmitted from the source address to the destination address

     since this entry was added to the alMatrixDSTable.  Note that
      this is the number of link-layer packets, so if a single
      network-layer packet is fragmented into several link-layer
      frames, this counter is incremented several times."
   ::= { alMatrixDSEntry 2 }




alMatrixDSOctets OBJECT-TYPE
   SYNTAX      ZeroBasedCounter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
```

"The number of octets in packets of this protocol type
transmitted from the source address to the destination address
since this entry was added to the alMatrixDSTable (excluding
framing bits, but including FCS octets), excluding octets
in packets that contained errors.

Note that this doesn't count just those octets in the particular
protocol frames but includes the entire packet that contained
the protocol."
::= { alMatrixDSEntry 3 }

alMatrixDSCreateTime OBJECT-TYPE
SYNTAX LastCreateTime
MAX-ACCESS
read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this entry was last activated.
This can be used by the management station to ensure that the
entry has not been deleted and recreated between polls."
::= { alMatrixDSEntry 4 }

alMatrixTopNControlTable OBJECT-TYPE
SYNTAX SEQUENCE OF AlMatrixTopNControlEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A set of parameters that control the creation of a
report of the top N matrix entries according to
a selected metric."
::= { alMatrix 3 }

alMatrixTopNControlEntry OBJECT-TYPE
SYNTAX AlMatrixTopNControlEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A conceptual row in the alMatrixTopNControlTable.

An example of the indexing of this table is
alMatrixTopNControlDuration.3"
INDEX { alMatrixTopNControlIndex }
::= { alMatrixTopNControlTable 1 }

AlMatrixTopNControlEntry

```
 ::= SEQUENCE {
   alMatrixTopNControlIndex            Integer32,
   alMatrixTopNControlMatrixIndex      Integer32,
   alMatrixTopNControlRateBase         INTEGER,
   alMatrixTopNControlTimeRemaining    Integer32,
   alMatrixTopNControlGeneratedReports Counter32,
   alMatrixTopNControlDuration         Integer32,
   alMatrixTopNControlRequestedSize    Integer32,
   alMatrixTopNControlGrantedSize      Integer32,
   alMatrixTopNControlStartTime        TimeStamp,
   alMatrixTopNControlOwner            OwnerString,
   alMatrixTopNControlStatus           RowStatus
}

alMatrixTopNControlIndex OBJECT-TYPE
   SYNTAX     Integer32 (1..65535)
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "An index that uniquely identifies an entry
      in the alMatrixTopNControlTable.  Each such
      entry defines one topN report prepared for
      one interface."
   ::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..65535)
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The alMatrix[SD/DS] table for which a topN report will be
      prepared on behalf of this entry.  The alMatrix[SD/DS] table
      is identified by the value of the hlMatrixControlIndex
      for that table - that value is used here to identify the
      particular table.

      This object may not be modified if the associated
      alMatrixTopNControlStatus object is equal to active(1)."
   ::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE
   SYNTAX     INTEGER {
                alMatrixTopNTerminalsPkts(1),
                alMatrixTopNTerminalsOctets(2),
                alMatrixTopNAllPkts(3),
                alMatrixTopNAllOctets(4),
                alMatrixTopNTerminalsHighCapacityPkts(5),
                alMatrixTopNTerminalsHighCapacityOctets(6),
```

```
            alMatrixTopNAllHighCapacityPkts(7),

          alMatrixTopNAllHighCapacityOctets(8)
           }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "This object controls which alMatrix[SD/DS] entry that the
     alMatrixTopNEntries are sorted by, which view of the matrix
     table that will be used, as well as which table the results
     will be reported in.

     The values alMatrixTopNTerminalsPkts,
     alMatrixTopNTerminalsOctets,
     alMatrixTopNTerminalsHighCapacityPkts, and
     alMatrixTopNTerminalsHighCapacityOctets cause collection
     only from protocols that have no child protocols that are
     counted.  The values alMatrixTopNAllPkts,
     alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and
     alMatrixTopNAllHighCapacityOctets cause collection from all
     alMatrix entries.

     This object may not be modified if the associated
     alMatrixTopNControlStatus object is equal to active(1)."
  ::= { alMatrixTopNControlEntry
 3 }

alMatrixTopNControlTimeRemaining OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The number of seconds left in the report currently
     being collected.  When this object is modified by
     the management station, a new collection is started,
     possibly aborting a currently running report.  The
     new value is used as the requested duration of this
     report and is immediately loaded into the associated
     alMatrixTopNControlDuration object.

     When the report finishes, the probe will automatically
     start another collection with the same initial value
     of alMatrixTopNControlTimeRemaining.  Thus, the management
     station may simply read the resulting reports repeatedly,
     checking the startTime and duration each time to ensure that a
```

report was not missed or that the report parameters were not
changed.

While the value
of this object is non-zero, it decrements
by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made
accessible in the alMatrixTopNTable, overwriting any report
that may be there.

When this object is modified by the management station, any
associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used
in the hostTopNTable)."
DEFVAL { 1800 }
::= { alMatrixTopNControlEntry 4 }

alMatrixTopNControlGeneratedReports OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of reports that have been generated by this entry."
::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of seconds that this report has collected
during the last sampling interval.

When the associated alMatrixTopNControlTimeRemaining object
is set, this object shall be set by the probe to the
same value and shall not be modified until the next
time the alMatrixTopNControlTimeRemaining is set.

This value shall be zero if no reports have been
requested for this alMatrixTopNControlEntry."
::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)

```
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The maximum number of matrix entries requested for this report.

     When this object is created or modified, the probe
     should set alMatrixTopNControlGrantedSize as closely to this
     object as possible for the particular probe
     implementation and available resources."



  DEFVAL { 150 }
  ::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE
   SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The maximum number of matrix entries in this report.

     When the associated alMatrixTopNControlRequestedSize object
     is created or modified, the probe should set this
     object as closely to the requested value as
     possible for the particular implementation and
     available resources. The probe must not lower this
     value except as a side-effect of a set to the associated
     alMatrixTopNControlRequestedSize object.

     If the value of alMatrixTopNControlRateBase is equal to
     alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the
     next topN report is generated, matrix entries with the highest
     value of alMatrixTopNPktRate shall be placed in this table in
     decreasing order of this rate until there is no more room or
     until there are no more matrix entries.

     If the value of alMatrixTopNControlRateBase
 is equal to
     alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the
     next topN report is generated, matrix entries with the highest
     value of alMatrixTopNOctetRate shall be placed in this table
     in decreasing order of this rate until there is no more room
     or until there are no more matrix entries.

     It is an implementation-specific matter how entries with the
     same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are
     sorted.  It is also an implementation-specific matter as to
```

```
      whether zero-valued entries are available."
   ::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE
   SYNTAX     TimeStamp
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The value of sysUpTime when this topN report was
      last started.  In other words, this is the time that
      the associated alMatrixTopNControlTimeRemaining object
      was modified
 to start the requested report or the time
      the report was last automatically (re)started.



      This object may be used by the management station to
      determine whether a report was missed."
   ::= { alMatrixTopNControlEntry 9 }

alMatrixTopNControlOwner OBJECT-TYPE
   SYNTAX     OwnerString
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
   ::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE
   SYNTAX     RowStatus
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The status of this alMatrixTopNControlEntry.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value.

      If this object is not equal to active(1), all
      associated entries in the alMatrixTopNTable shall be
      deleted by the agent."
   ::= { alMatrixTopNControlEntry
 11 }

alMatrixTopNTable OBJECT-TYPE
   SYNTAX     SEQUENCE OF AlMatrixTopNEntry
```

```
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "A set of statistics for those application-layer matrix
     entries that have counted the highest number of octets or
     packets."
  ::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE
  SYNTAX     AlMatrixTopNEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "A conceptual row in the alMatrixTopNTable.

     The alMatrixTopNControlIndex value in the index identifies
     the alMatrixTopNControlEntry on whose behalf this entry was
     created.



     An example of the indexing of this table is
     alMatrixTopNPktRate.3.10"
  INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }
  ::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {
  alMatrixTopNIndex                   Integer32,
  alMatrixTopNProtocolDirLocalIndex      Integer32,

 alMatrixTopNSourceAddress            OCTET STRING,
  alMatrixTopNDestAddress              OCTET STRING,
  alMatrixTopNAppProtocolDirLocalIndex   Integer32,
  alMatrixTopNPktRate                 Gauge32,
  alMatrixTopNReversePktRate           Gauge32,
  alMatrixTopNOctetRate                Gauge32,
  alMatrixTopNReverseOctetRate          Gauge32
 }

alMatrixTopNIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "An index that uniquely identifies an entry in
     the alMatrixTopNTable among those in the same report.

     This index is between 1 and N, where N is the
```

number of entries in this report.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNPktRate until index N is

assigned or there are no more alMatrixTopNEntries.

If the value of alMatrixTopNControlRateBase is equal to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, increasing values of alMatrixTopNIndex shall be assigned to entries with decreasing values of alMatrixTopNOctetRate until index N is assigned or there are no more alMatrixTopNEntries."

::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."

::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..255))

```
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The network-layer address of the destination host in this
     conversation.

     This is represented as an octet string with
     specific semantics and length as identified
     by the associated alMatrixTopNProtocolDirLocalIndex.

     For example, if the alMatrixTopNProtocolDirLocalIndex
     indicates an encapsulation of IP, this object is encoded as a
     length octet of 4, followed by the 4 octets of the IP address,
     in network
 byte order."
  ::= { alMatrixTopNEntry 4 }

alMatrixTopNAppProtocolDirLocalIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The type of the protocol counted by this matrix entry."
  ::= { alMatrixTopNEntry 5 }

alMatrixTopNPktRate OBJECT-TYPE
  SYNTAX     Gauge32



  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of packets seen of this protocol from the source
     host to the destination host during this sampling interval,
     counted using the rules for counting the alMatrixSDPkts
     object.

     If the value of alMatrixTopNControlRateBase is
     alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, this
     variable will be used to sort this report."
  ::= { alMatrixTopNEntry 6 }

alMatrixTopNReversePktRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

"The number of packets
seen of this protocol from the
destination host to the source host during this sampling
interval, counted using the rules for counting the
alMatrixDSPkts object. (Note that the corresponding
alMatrixSDPkts object selected is the one whose source address
is equal to alMatrixTopNDestAddress and whose destination
address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal
to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort
of topN entries is based entirely on alMatrixTopNPktRate, and
not on the value of this object."
::= { alMatrixTopNEntry 7 }

alMatrixTopNOctetRate OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets seen of this protocol from the source
host to the destination host during this sampling interval,
counted using the rules for counting
the alMatrixSDOctets
object.

If the value of alMatrixTopNControlRateBase is
alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this
variable will be used to sort this report."
::= { alMatrixTopNEntry 8 }

alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets seen of this protocol from the
destination host to the source host during this sampling
interval, counted using the rules for counting the
alMatrixDSOctets object. (Note that the corresponding
alMatrixSDOctets object selected is the one whose source
address is equal to alMatrixTopNDestAddress and whose
destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal

```
      to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the
      sort of topN entries is based
 entirely on
      alMatrixTopNOctetRate, and not on the value of this object."
  ::= { alMatrixTopNEntry 9 }

--
-- User History Collection Group (usrHistory)
--
-- The usrHistory group combines mechanisms seen in the alarm and
-- history groups to provide user-specified history collection,
-- utilizing two additional control tables and one additional data
-- table.  This function has traditionally been done by NMS
-- applications, via periodic polling.  The usrHistory group allows
-- this task to be offloaded to an RMON probe.
--
-- Data (an ASN.1 INTEGER based object) is collected in the same
-- manner as any history data table (e.g., etherHistoryTable) except
-- that the user specifies the MIB instances to be collected.  Objects
-- are collected in bucket-groups, with the intent that all MIB
-- instances in the same bucket-group are collected as atomically as
-- possible by the RMON probe.
--
-- The usrHistoryControlTable is a one-dimensional read-create table.
-- Each row configures
 a collection of user history buckets, much
-- the same as a historyControlEntry, except that the creation of a
-- row in this table will cause one or more associated instances in
-- the usrHistoryObjectTable to be created.  The user specifies the
-- number of bucket elements (rows in the usrHistoryObjectTable)
-- requested, as well as the number of buckets requested.
--
-- The usrHistoryObjectTable is a 2-d read-write table.
-- Each row configures a single MIB instance to be collected.
-- All rows with the same major index constitute a bucket-group.
--
-- The usrHistoryTable is a 3-d read-only table containing




-- the data of associated usrHistoryControlEntries.  Each
-- entry represents the value of a single MIB instance
-- during a specific sampling interval (or the rate of
-- change during the interval).
--
-- A sample value is stored in two objects - an absolute value and
-- a status object.  This allows numbers from -(2G-1) to +4G to be
-- stored.  The status object also indicates
```

```
 whether a sample is
-- valid.  This allows data collection to continue if periodic
-- retrieval of a particular instance fails for any reason.
--
-- Row Creation Order Relationships
--
-- The static nature of the usrHistoryObjectTable creates
-- some row creation/modification issues.  The rows in this
-- table need to be set before the associated
-- usrHistoryControlEntry can be activated.
--
-- Note that the usrHistoryObject entries associated with a
-- particular usrHistoryControlEntry are not required to
-- be active before the control entry is activated.  However,
-- the usrHistory data entries associated with an inactive
-- usrHistoryObject entry will be inactive (i.e.,
-- usrHistoryValStatus == valueNotAvailable).
--

usrHistoryControlTable OBJECT-TYPE
  SYNTAX SEQUENCE OF UsrHistoryControlEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of data-collection configuration entries."
  ::= { usrHistory 1 }

usrHistoryControlEntry OBJECT-TYPE
   SYNTAX UsrHistoryControlEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of parameters that set up a group of user-defined
     MIB objects to be sampled periodically (called a
     bucket-group).

     For example, an instance of usrHistoryControlInterval
     might be named usrHistoryControlInterval.1"
  INDEX { usrHistoryControlIndex }
  ::= { usrHistoryControlTable 1 }



UsrHistoryControlEntry ::= SEQUENCE {
  usrHistoryControlIndex            Integer32,
  usrHistoryControlObjects          Integer32,
  usrHistoryControlBucketsRequested  Integer32,
```

```
  usrHistoryControlBucketsGranted    Integer32,
  usrHistoryControlInterval          Integer32,
  usrHistoryControlOwner             OwnerString,
  usrHistoryControlStatus            RowStatus
}

usrHistoryControlIndex OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "An index that uniquely
 identifies an entry in the
     usrHistoryControlTable.  Each such entry defines a
     set of samples at a particular interval for a specified
     set of MIB instances available from the managed system."
  ::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
     "The number of MIB objects to be collected
     in the portion of usrHistoryTable associated with this
     usrHistoryControlEntry.

     This object may not be modified if the associated instance
     of usrHistoryControlStatus is equal to active(1)."
  ::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
     "The requested number of discrete time intervals
     over which data is to be saved in the part of the
     usrHistoryTable associated with this usrHistoryControlEntry.

      When this object is created or modified, the probe
     should set usrHistoryControlBucketsGranted as closely to
     this object as possible for the particular probe
     implementation and available resources."
  DEFVAL { 50 }
```

```
  ::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
     "The number of discrete sampling intervals
     over which data shall be saved in the part of
     the usrHistoryTable associated with this
     usrHistoryControlEntry.

     When the associated usrHistoryControlBucketsRequested
     object is created or modified, the probe should set
     this object as closely to the requested value as
     possible for the particular probe implementation and
     available resources.  The probe must not lower this
     value except as a result of a modification to the associated
      usrHistoryControlBucketsRequested object.

     The associated usrHistoryControlBucketsRequested object
     should be set before or at the same time as this object
     to allow the probe to accurately estimate the resources
     required for this usrHistoryControlEntry.

     There will be times when the actual number of buckets
     associated with this entry is less than the value of
     this object.  In this case, at the end of each sampling
     interval, a new bucket will be added to the usrHistoryTable.

     When the number of buckets reaches the value of this object
     and a new bucket is to be added to the usrHistoryTable,
     the oldest bucket associated with this usrHistoryControlEntry
     shall be deleted by the agent so that the new bucket can be
     added.

     When the value of this object changes to a value less than
     the current value, entries are deleted from the
     usrHistoryTable associated with
 this usrHistoryControlEntry.
     Enough of the oldest of these entries shall be deleted by the
     agent so that their number remains less than or equal to the
     new value of this object.

     When the value of this object changes to a value greater
     than the current value, the number of associated usrHistory
     entries may be allowed to grow."
  ::= { usrHistoryControlEntry 4 }
```

```
usrHistoryControlInterval OBJECT-TYPE
  SYNTAX Integer32 (1..2147483647)
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
     "The interval in seconds over which the data is
     sampled for each bucket in the part of the usrHistory
     table associated with this usrHistoryControlEntry.

     Because the counters in a bucket may overflow at their
     maximum value with no indication, a prudent manager will
     take into account the possibility of overflow in any of
     the associated counters.  It is important to consider the

    minimum time in which any counter could overflow on a
     particular media type and to set the usrHistoryControlInterval
     object to a value less than this interval.

     This object may not be modified if the associated
     usrHistoryControlStatus object is equal to active(1)."
  DEFVAL { 1800 }
  ::= { usrHistoryControlEntry 5 }

usrHistoryControlOwner OBJECT-TYPE
  SYNTAX OwnerString
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE
  SYNTAX RowStatus
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
     "The status of this variable history control entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.

     If this object is not equal to active(1), all associated
     entries
```

```
 in the usrHistoryTable shall be deleted."
  ::= { usrHistoryControlEntry 7 }

-- Object table

usrHistoryObjectTable OBJECT-TYPE



  SYNTAX SEQUENCE OF UsrHistoryObjectEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of data-collection configuration entries."
  ::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE
  SYNTAX UsrHistoryObjectEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of MIB instances to be sampled periodically.

     Entries in this table are created when an associated
     usrHistoryControlObjects object is created.

     The usrHistoryControlIndex value in the index is
     that of the associated usrHistoryControlEntry.

     For example, an instance of usrHistoryObjectVariable might be
     usrHistoryObjectVariable.1.3"
  INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }
  ::= { usrHistoryObjectTable 1 }

UsrHistoryObjectEntry ::= SEQUENCE {

  usrHistoryObjectIndex            Integer32,
  usrHistoryObjectVariable         OBJECT IDENTIFIER,
  usrHistoryObjectSampleType       INTEGER
}

usrHistoryObjectIndex OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "An index used to uniquely identify an entry in the
     usrHistoryObject table.  Each such entry defines a
```

```
      MIB instance to be collected periodically."
    ::= { usrHistoryObjectEntry 1 }


usrHistoryObjectVariable OBJECT-TYPE
    SYNTAX OBJECT IDENTIFIER
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
      "The object identifier of the particular variable to be




      sampled.

      Only variables that resolve to an ASN.1 primitive type of
      Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be
      sampled.

      Because SNMP access control is articulated entirely in terms
      of the contents of MIB views, no access control mechanism

 exists that can restrict the value of this object to identify
      only those objects that exist in a particular MIB view.
      Because there is thus no acceptable means of restricting the
      read access that could be obtained through the user history
      mechanism, the probe must only grant write access to this
      object in those views that have read access to all objects on
      the probe.  See USM [RFC3414] and VACM [RFC3415] for more
      information.

      During a set operation, if the supplied variable name is not
      available in the selected MIB view, a badValue error must be
      returned.

      This object may not be modified if the associated
      usrHistoryControlStatus object is equal to active(1)."
    ::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE
    SYNTAX INTEGER {
             absoluteValue(1),
             deltaValue(2)
           }
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
```

"The method of sampling the selected variable for storage in the usrHistoryTable.

If the value of this object is absoluteValue(1), the value of the selected variable will be copied directly into the history bucket.

If the value of this object is deltaValue(2), the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket. If the associated usrHistoryObjectVariable instance could not be obtained at the previous sample interval, then a delta sample is not possible, and the value of the associated usrHistoryValStatus object for this interval will be valueNotAvailable(1).

This object may not be modified if the associated usrHistoryControlStatus object is equal to active(1)."
::= { usrHistoryObjectEntry 3 }

```
-- data table

usrHistoryTable OBJECT-TYPE
  SYNTAX SEQUENCE OF UsrHistoryEntry
   MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of user-defined history entries."
  ::= { usrHistory 3 }

usrHistoryEntry OBJECT-TYPE
  SYNTAX UsrHistoryEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A historical sample of user-defined variables.  This sample
     is associated with the usrHistoryControlEntry that set up the
     parameters for a regular collection of these samples.

     The usrHistoryControlIndex value in the index identifies the
     usrHistoryControlEntry on whose behalf this entry was created.
     The usrHistoryObjectIndex value in the index identifies the
     usrHistoryObjectEntry on whose behalf this entry was created.

     For example, an instance of usrHistoryAbsValue, which represents
     the 14th sample of a variable collected as specified by
```

```
      usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5,
      would be named usrHistoryAbsValue.1.14.5"
    INDEX { usrHistoryControlIndex, usrHistorySampleIndex,
          usrHistoryObjectIndex }
  ::= { usrHistoryTable 1 }

UsrHistoryEntry ::= SEQUENCE {
  usrHistorySampleIndex   Integer32,
  usrHistoryIntervalStart TimeStamp,
  usrHistoryIntervalEnd   TimeStamp,
  usrHistoryAbsValue      Gauge32,
  usrHistoryValStatus     INTEGER
}

usrHistorySampleIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current



  DESCRIPTION
      "An index that uniquely identifies the particular sample this
      entry represents among all samples associated with the same
      usrHistoryControlEntry.  This index starts at 1 and increases
      by one as each new sample is taken."
  ::= { usrHistoryEntry 1 }

usrHistoryIntervalStart OBJECT-TYPE
  SYNTAX TimeStamp
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
      "The value of sysUpTime at the start of the interval over
      which this sample was
 measured.  If the probe keeps track of
      the time of day, it should start the first sample of the
      history at a time such that when the next hour of the day
      begins, a sample is started at that instant.

      Note that following this rule may require that the probe delay
      collecting the first sample of the history, as each sample
      must be of the same interval.  Also note that the sample that
      is currently being collected is not accessible in this table
      until the end of its interval."
  ::= { usrHistoryEntry 2 }

usrHistoryIntervalEnd OBJECT-TYPE
```

```
  SYNTAX TimeStamp
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
     "The value of sysUpTime at the end of the interval over which
     this sample was measured."
  ::= { usrHistoryEntry 3 }

usrHistoryAbsValue OBJECT-TYPE
  SYNTAX Gauge32
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
     "The absolute value (i.e., unsigned value) of the

  user-specified statistic during the last sampling period.  The
     value during the current sampling period is not made available
     until the period is completed.

     To obtain the true value for this sampling interval, the
     associated instance of usrHistoryValStatus must be checked,
     and usrHistoryAbsValue adjusted as necessary.




     If the MIB instance could not be accessed during the sampling
     interval, then this object will have a value of zero, and the
     associated instance of usrHistoryValStatus will be set to
     'valueNotAvailable(1)'.

     The access control check prescribed in the definition of
     usrHistoryObjectVariable SHOULD be checked for each sampling
     interval.  If this check determines that access should not be
     allowed, then this object will have a value of zero, and the
     associated instance of usrHistoryValStatus will be set to
     'valueNotAvailable(1)'."
  ::= { usrHistoryEntry
 4 }


usrHistoryValStatus OBJECT-TYPE
  SYNTAX INTEGER {
     valueNotAvailable(1),
     valuePositive(2),
     valueNegative(3)
  }
  MAX-ACCESS read-only
```

```
  STATUS current
  DESCRIPTION
      "This object indicates the validity and sign of the data in
      the associated instance of usrHistoryAbsValue.

      If the MIB instance could not be accessed during the sampling
      interval, then 'valueNotAvailable(1)' will be returned.

      If the sample is valid and the actual value of the sample is
      greater than or equal to zero, then 'valuePositive(2)' is
      returned.

      If the sample is valid and the actual value of the sample is
      less than zero, 'valueNegative(3)' will be returned.  The
      associated instance of usrHistoryAbsValue should be multiplied
      by -1 to obtain the true sample value."
  ::= { usrHistoryEntry 5 }

-- The Probe Configuration Group
--
-- This group controls the configuration of various operating
--
 parameters of the probe.

ControlString ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
      "This data type is used to communicate with a modem or a




      serial data switch.  A ControlString contains embedded
      commands to control how the device will interact with the
      remote device through the serial interface.  Commands are
      represented as two-character sequences beginning with
      the '^' character.

      The following commands are recognized by the device (note
      that command characters are case sensitive):

        ^s  Send string that follows, which is terminated by the
            next command or the end of string.
        ^c  Delay for the number of seconds that follows.  Toss
            out any data received rather than store it in a
            buffer for parsing.
        ^t  Set timeout to the value represented by the decimal
            digits that follow.  The default timeout is 20
```

seconds. Note that this timeout may be overridden
by a smaller serialTimeout configured for the
associated serial interface (see serialConfigTable).
^w Wait for the reply string that follows, which is
terminated by the next command or the end of string.
Partial and case-insensitive matching is applied, i.e.,
if the reply string (any case combination) is found
anywhere in the received string, then the a match is
found. If the current timeout elapses without a match,
then the remaining control string is ignored.
^! The ^ character.
^d Delay the number of seconds specified by the decimal
digits that follow.
^b Send break for the number of milliseconds specified by
the decimal digits that follow. If no digits follow,
break will be enforced for 250 milliseconds by default.

The following ASCII control characters may be inserted into
the '^s' send string or the '^w' reply string:

^@ 0x00
^A 0x01
..
^M 0x0D
..
^Z 0x1A
^[0x1B
^ 0x1C
^] 0x1D
^^ 0x1E
^_ 0x1F

Binary data may also be inserted into the data stream. The
control sequence for each byte of binary data is ^0x##, where
is the hexadecimal representation of the data byte. Two
ASCII characters (0-9, a-f, A-F) must follow the '^0x'
control prefix. For example, '^0x0D^0x0A' is interpreted as a
carriage return followed by a line feed."
SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE
SYNTAX BITS {
etherStats(0),
historyControl(1),
etherHistory(2),

```
        alarm(3),
        hosts(4),
        hostTopN(5),
        matrix(6),
        filter(7),
         capture(8),
        event(9),
        tokenRingMLStats(10),
        tokenRingPStats(11),
        tokenRingMLHistory(12),
        tokenRingPHistory(13),
        ringStation(14),
        ringStationOrder(15),
        ringStationConfig(16),
        sourceRouting(17),
        protocolDirectory(18),
        protocolDistribution(19),
        addressMapping(20),
        nlHost(21),
        nlMatrix(22),
        alHost(23),
        alMatrix(24),
        usrHistory(25),
        probeConfig(26)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "An indication of the RMON MIB groups supported
        on at least one interface by this probe."
    ::= { probeConfig 1 }

probeSoftwareRev  OBJECT-TYPE
    SYNTAX     DisplayString (SIZE(0..15))
    MAX-ACCESS read-only



    STATUS     current
    DESCRIPTION
        "The software revision of this device.  This string will have
        a zero length if the revision is unknown."
    ::= { probeConfig 2 }

probeHardwareRev
  OBJECT-TYPE
    SYNTAX     DisplayString (SIZE(0..31))
    MAX-ACCESS read-only
```

```
  STATUS     current
  DESCRIPTION
     "The hardware revision of this device.  This string will have
     a zero length if the revision is unknown."
  ::= { probeConfig 3 }

probeDateTime  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 8 | 11))
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "Probe's current date and time.

      field  octets  contents                range
      -----  ------  --------               -----
        1      1-2   year                   0..65536
        2       3    month                   1..12
        3       4    day                    1..31
        4       5    hour                   0..23
        5       6    minutes                 0..59
        6       7    seconds                 0..60
                     (use 60 for leap-second)
        7       8    deci-seconds
       0..9
        8       9    direction from UTC       '+' / '-'
        9      10     hours from UTC          0..11
       10      11     minutes from UTC         0..59

      For example, Tuesday May 26, 1992 at 1:30:15 PM
      EDT would be displayed as:

                1992-5-26,13:30:15.0,-4:0

      Note that if only local time is known, then
      time zone information (fields 8-10) is not
      present, and that if no time information is known, the
      null string is returned."
  ::= { probeConfig 4 }

probeResetControl  OBJECT-TYPE



  SYNTAX     INTEGER {
                running(1),
                warmBoot(2),
                coldBoot(3)
             }
```

```
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
        "Setting this object to warmBoot(2) causes the device to
        restart the application software with current configuration
        parameters saved in non-volatile memory.  Setting this

    object to coldBoot(3) causes the device to reinitialize
        configuration parameters in non-volatile memory to default
        values and to restart the application software.  When the device
        is running normally, this variable has a value of
        running(1)."
    ::= { probeConfig 5 }

-- The following download objects do not restrict an implementation
-- from implementing additional download mechanisms (controlled in an
-- implementation-specific manner).  Further, in the case where the RMON
-- agent shares a processor with other types of systems, the
-- implementation is not required to download those non-RMON functions
-- with this mechanism.

probeDownloadFile  OBJECT-TYPE
    SYNTAX     DisplayString (SIZE(0..127))
    MAX-ACCESS read-write
    STATUS     deprecated
    DESCRIPTION
        "The file name to be downloaded from the TFTP server when a
        download is next requested via this MIB.  This value is set to
        the zero-length string when no file name
    has been specified.

        This object has been deprecated, as it has not had enough
        independent implementations to demonstrate interoperability to
        meet the requirements of a Draft Standard."
    ::= { probeConfig 6 }

probeDownloadTFTPServer  OBJECT-TYPE
    SYNTAX     IpAddress
    MAX-ACCESS read-write
    STATUS     deprecated
    DESCRIPTION
        "The IP address of the TFTP server that contains the boot
        image to load when a download is next requested via this MIB.
        This value is set to '0.0.0.0' when no IP address has been
```

```
      specified.

      This object has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability to
      meet the requirements of a Draft Standard."
   ::= { probeConfig 7 }

probeDownloadAction  OBJECT-TYPE
   SYNTAX     INTEGER {
                notDownloading(1),
                downloadToPROM(2),
                downloadToRAM(3)
              }
   MAX-ACCESS
 read-write
   STATUS     deprecated
   DESCRIPTION
      "When this object is set to downloadToRAM(3) or
      downloadToPROM(2), the device will discontinue its
      normal operation and begin download of the image specified
      by probeDownloadFile from the server specified by
      probeDownloadTFTPServer using the TFTP protocol.  If
      downloadToRAM(3) is specified, the new image is copied
      to RAM only (the old image remains unaltered in the flash
      EPROM).  If downloadToPROM(2) is specified,
      the new image is written to the flash EPROM
      memory after its checksum has been verified to be correct.
      When the download process is completed, the device will
      warm boot to restart the newly loaded application.
      When the device is not downloading, this object will have
      a value of notDownloading(1).

      This object has been deprecated, as it has not had enough
      independent implementations to demonstrate
 interoperability to
      meet the requirements of a Draft Standard."
   ::= { probeConfig 8 }

probeDownloadStatus  OBJECT-TYPE
   SYNTAX     INTEGER {
                downloadSuccess(1),
                downloadStatusUnknown(2),
                downloadGeneralError(3),
                downloadNoResponseFromServer(4),
                downloadChecksumError(5),
                downloadIncompatibleImage(6),
                downloadTftpFileNotFound(7),
                downloadTftpAccessViolation(8)
```

```
            }
    MAX-ACCESS read-only



    STATUS      deprecated
    DESCRIPTION
        "The status of the last download procedure, if any.  This
        object will have a value of downloadStatusUnknown(2) if no
        download process has been performed.

        This object has been deprecated, as it has not had enough
        independent implementations to demonstrate interoperability to
        meet the requirements of a Draft Standard."
     ::= { probeConfig 9 }

serialConfigTable  OBJECT-TYPE
    SYNTAX      SEQUENCE OF SerialConfigEntry
    MAX-ACCESS not-accessible
    STATUS      deprecated
    DESCRIPTION
        "A table of serial interface configuration entries.  This data
        will be stored in non-volatile memory and preserved across
        probe resets or power loss.

        This table has been deprecated, as it has not had enough
        independent implementations to demonstrate interoperability to
        meet the requirements of a Draft Standard."
    ::= { probeConfig 10 }

serialConfigEntry  OBJECT-TYPE
    SYNTAX      SerialConfigEntry
    MAX-ACCESS not-accessible
    STATUS      deprecated
    DESCRIPTION
        "A set of configuration parameters for a particular
        serial interface on this device.  If the device has no serial
        interfaces, this table is empty.

        The index is composed of the ifIndex assigned to this serial
        line interface."
    INDEX  { ifIndex }
    ::=
   { serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {
    serialMode                INTEGER,
    serialProtocol            INTEGER,
```

```
  serialTimeout              Integer32,
  serialModemInitString      ControlString,
  serialModemHangUpString    ControlString,
  serialModemConnectResp     DisplayString,
  serialModemNoConnectResp   DisplayString,
  serialDialoutTimeout       Integer32,



  serialStatus               RowStatus
}

serialMode  OBJECT-TYPE
  SYNTAX     INTEGER {
               direct(1),
               modem(2)
             }
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The type of incoming connection to be expected on this
      serial interface."
  DEFVAL { direct }
  ::= { serialConfigEntry 1 }

serialProtocol  OBJECT-TYPE
  SYNTAX     INTEGER {
               other(1),
               slip(2),
               ppp(3)
             }
  MAX-ACCESS read-create
  STATUS
    deprecated
  DESCRIPTION
     "The type of data link encapsulation to be used on this
     serial interface."
  DEFVAL { slip }
  ::= { serialConfigEntry 2 }

serialTimeout  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "This timeout value is used when the Management Station has
     initiated the conversation over the serial link.  This variable
     represents the number of seconds of inactivity allowed before
```

terminating the connection on this serial interface. Use the
serialDialoutTimeout in the case where the probe has initiated
the connection for the purpose of sending a trap."
DEFVAL { 300 }
::= { serialConfigEntry 3 }

serialModemInitString OBJECT-TYPE
SYNTAX ControlString (SIZE (0..255))
MAX-ACCESS read-create
STATUS deprecated

DESCRIPTION
"A control string that controls how a modem attached to this

serial interface should be initialized. The initialization
is performed once during startup and again after each
connection is terminated if the associated serialMode has the
value of modem(2).

A control string that is appropriate for a wide variety of
modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."
::= { serialConfigEntry 4 }

serialModemHangUpString OBJECT-TYPE
SYNTAX ControlString (SIZE (0..255))
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"A control string that specifies how to disconnect a modem
connection on this serial interface. This object is only
meaningful if the associated serialMode has the value
of modem(2).

A control string that is appropriate for a wide variety of
modems is: '^d2^s+++^d2^sATH0^M^d2'."
::= { serialConfigEntry 5 }

serialModemConnectResp OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-create

STATUS deprecated
DESCRIPTION
"An ASCII string containing substrings that describe the
expected modem connection response code and associated bps
rate. The substrings are delimited by the first character

in the string, for example:
/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
CONNECT 4800/4800/CONNECT 9600/9600
will be interpreted as:

response code	bps rate
CONNECT	300
CONNECT 1200	1200
CONNECT 2400	2400
CONNECT 4800	4800
CONNECT 9600	9600

The agent will use the information in this string to adjust
the bps rate of this serial interface once a modem connection
is established.

A value that is appropriate for a wide variety of modems is:

'/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/
CONNECT
19200/19200/CONNECT 38400/38400/'."
::= { serialConfigEntry 6 }

serialModemNoConnectResp OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"An ASCII string containing response codes that may be
generated by a modem to report the reason why a connection
attempt has failed. The response codes are delimited by
the first character in the string, for example:
/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/

If one of these response codes is received via this serial
interface while attempting to make a modem connection,
the agent will issue the hang up command as specified by
serialModemHangUpString.

A value that is appropriate for a wide variety of modems is:
'/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/'."
::= { serialConfigEntry 7 }

serialDialoutTimeout OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS

```
 read-create
   STATUS     deprecated
   DESCRIPTION
      "This timeout value is used when the probe initiates the
      serial connection with the intention of contacting a
      management station.  This variable represents the number
      of seconds of inactivity allowed before terminating the
      connection on this serial interface."
   DEFVAL { 20 }
   ::= { serialConfigEntry 8 }

serialStatus  OBJECT-TYPE
   SYNTAX     RowStatus
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "The status of this serialConfigEntry.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value."
   ::= { serialConfigEntry 9 }



netConfigTable  OBJECT-TYPE
   SYNTAX     SEQUENCE OF NetConfigEntry
   MAX-ACCESS not-accessible
   STATUS     deprecated
   DESCRIPTION
      "A table of netConfigEntries.

      This table has been deprecated, as it has not had enough
      independent
 implementations to demonstrate interoperability to
      meet the requirements of a Draft Standard."
   ::= { probeConfig 11 }

netConfigEntry  OBJECT-TYPE
   SYNTAX     NetConfigEntry
   MAX-ACCESS not-accessible
   STATUS     deprecated
   DESCRIPTION
      "A set of configuration parameters for a particular
      network interface on this device.  If the device has no network
      interface, this table is empty.

      The index is composed of the ifIndex assigned to the
      corresponding interface."
```

```
  INDEX  { ifIndex }
  ::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {
  netConfigIPAddress        IpAddress,
  netConfigSubnetMask       IpAddress,
  netConfigStatus           RowStatus
}

netConfigIPAddress  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
      "The IP address of this Net interface.  The default value
      for this object is 0.0.0.0.  If either the netConfigIPAddress
       or netConfigSubnetMask is 0.0.0.0, then when the device
      boots, it may use BOOTP to try to figure out what these
      values should be.  If BOOTP fails before the device
      can talk on the network, this value must be configured
      (e.g., through a terminal attached to the device).  If BOOTP is
      used, care should be taken to not send BOOTP broadcasts too
      frequently and to eventually send them very infrequently if no
      replies are received."
  ::= { netConfigEntry 1 }



netConfigSubnetMask  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
      "The subnet mask of this Net interface.  The default value
      for this object is 0.0.0.0.  If either the netConfigIPAddress
      or netConfigSubnetMask is 0.0.0.0, then when the device
      boots, it may use BOOTP to try to figure out what these
      values should be.  If BOOTP fails before the device
      can talk on
 the network, this value must be configured
      (e.g., through a terminal attached to the device).  If BOOTP is
      used, care should be taken to not send BOOTP broadcasts too
      frequently and to eventually send them very infrequently if no
      replies are received."
  ::= { netConfigEntry 2 }

netConfigStatus  OBJECT-TYPE
  SYNTAX     RowStatus
```

```
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The status of this netConfigEntry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value."
  ::= { netConfigEntry 3 }

netDefaultGateway  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-write
  STATUS     deprecated
  DESCRIPTION
     "The IP Address of the default gateway.  If this value is
     undefined or unknown, it shall have the value 0.0.0.0."
  ::= { probeConfig 12 }

-- Trap Destination Table
--
-- This table defines the destination addresses for traps
 generated
-- from the device.  This table maps a community to one or more trap
-- destination entries.
--
-- The same trap will be sent to all destinations specified in the
-- entries that have the same trapDestCommunity as the eventCommunity
-- (as defined by RMON MIB), as long as no access control mechanism
-- (e.g., VACM) prohibits sending to one or more of the destinations.
-- Information in this table will be stored in non-volatile memory.



-- If the device has gone through a hard restart, this information
-- will be reset to its default state.

trapDestTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF TrapDestEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A list of trap destination entries."
  ::= { probeConfig 13 }

trapDestEntry  OBJECT-TYPE
  SYNTAX     TrapDestEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
```

```
  DESCRIPTION
     "This entry includes a destination IP address to which
     traps are sent for this community."
   INDEX { trapDestIndex }
  ::= { trapDestTable 1 }

TrapDestEntry ::= SEQUENCE {
  trapDestIndex             Integer32,
  trapDestCommunity          OCTET STRING,
  trapDestProtocol          INTEGER,
  trapDestAddress           OCTET STRING,
  trapDestOwner             OwnerString,
  trapDestStatus            RowStatus
}

trapDestIndex  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A value that uniquely identifies this trapDestEntry."
  ::= { trapDestEntry 1 }

trapDestCommunity  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(0..127))
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "A community to which this destination address belongs.
     This entry is associated with any eventEntries in the RMON
     MIB whose value of eventCommunity is equal to the value of
     this object.  Every time an associated event entry sends a

    trap due to an event, that trap will be sent to each



     address in the trapDestTable with a trapDestCommunity equal
     to eventCommunity, as long as no access control mechanism
     precludes it (e.g., VACM).

     This object may not be modified if the associated
     trapDestStatus object is equal to active(1)."
  ::= { trapDestEntry 2 }

trapDestProtocol OBJECT-TYPE
  SYNTAX     INTEGER {
               ip(1),
```

```
                ipx(2)
            }
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The protocol with which this trap is to be sent."
  ::= { trapDestEntry 3 }

trapDestAddress  OBJECT-TYPE
  SYNTAX     OCTET STRING
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The destination address for traps on behalf of this entry.

     If the associated trapDestProtocol object is equal to ip(1),
     the encoding of this object is the same as the snmpUDPAddress
     textual
convention in RFC 3417, 'Transport Mappings for the
      Simple Network Management Protocol (SNMP)' [RFC3417]:
       -- for a SnmpUDPAddress of length 6:
       --
       -- octets   contents        encoding
       --  1-4     IP-address      network-byte order
       --  5-6     UDP-port        network-byte order

     If the associated trapDestProtocol object is equal to ipx(2),
     the encoding of this object is the same as the snmpIPXAddress
     textual convention in RFC 3417, 'Transport Mappings for the
      Simple Network Management Protocol (SNMP)' [RFC3417]:
       -- for a SnmpIPXAddress of length 12:
       --
       -- octets   contents           encoding
       --  1-4     network-number      network-byte order
       --  5-10    physical-address    network-byte order
       -- 11-12    socket-number       network-byte order

     This object may not be modified if the associated




     trapDestStatus object
 is equal to active(1)."
  ::= { trapDestEntry 4 }

trapDestOwner  OBJECT-TYPE
  SYNTAX     OwnerString
  MAX-ACCESS read-create
```

```
  STATUS     deprecated
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { trapDestEntry 5 }

trapDestStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The status of this trap destination entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value."
  ::= { trapDestEntry 6 }

-- Serial Connection Table
--
-- The device may communicate with a management station using
-- SLIP.  In order for the device to send traps via SLIP, it must
-- be able to initiate a connection over the serial interface.  The
-- serialConnectionTable stores the parameters for such connection
-- initiation.

serialConnectionTable  OBJECT-TYPE
  SYNTAX     SEQUENCE
 OF SerialConnectionEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A list of serialConnectionEntries.

     This table has been deprecated, as it has not had enough
     independent implementations to demonstrate interoperability
     to meet the requirements of a Draft Standard."
  ::= { probeConfig 14 }

serialConnectionEntry  OBJECT-TYPE
  SYNTAX     SerialConnectionEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION




     "Configuration for a SLIP link over a serial line."
  INDEX { serialConnectIndex }
```

```
  ::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {
  serialConnectIndex                Integer32,
  serialConnectDestIpAddress        IpAddress,
  serialConnectType                 INTEGER,
  serialConnectDialString           ControlString,
  serialConnectSwitchConnectSeq     ControlString,
  serialConnectSwitchDisconnectSeq  ControlString,
   serialConnectSwitchResetSeq      ControlString,
  serialConnectOwner                OwnerString,
  serialConnectStatus               RowStatus
}

serialConnectIndex  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A value that uniquely identifies this serialConnection
     entry."
  ::= { serialConnectionEntry 1 }

serialConnectDestIpAddress  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The IP Address that can be reached at the other end of this
     serial connection.

     This object may not be modified if the associated
     serialConnectStatus object is equal to active(1)."
  ::= { serialConnectionEntry 2 }


serialConnectType  OBJECT-TYPE
  SYNTAX     INTEGER {
                direct(1),
                modem(2),
                switch(3),
                modemSwitch(4)

    }
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
```

```
      "The type of outgoing connection to be made.  If this object
      has the value direct(1), then a direct serial connection
      is assumed.  If this object has the value modem(2),
      then serialConnectDialString will be used to make a modem
      connection.  If this object has the value switch(3),
      then serialConnectSwitchConnectSeq will be used to establish
      the connection over a serial data switch, and
      serialConnectSwitchDisconnectSeq will be used to terminate
      the connection.  If this object has the value
      modem-switch(4), then a modem connection will be made first,
      followed by the switch connection.

      This object may not be modified if the associated
      serialConnectStatus object is equal to active(1)."
   DEFVAL { direct }
   ::= { serialConnectionEntry 3 }

serialConnectDialString  OBJECT-TYPE
   SYNTAX     ControlString (SIZE(0..255))
    MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "A control string that specifies how to dial the phone
      number in order to establish a modem connection.  The
      string should include the dialing prefix and suffix.  For
      example: '^s^MATD9,888-1234^M' will instruct the Probe
      to send a carriage return, followed by the dialing prefix
      'ATD', the phone number '9,888-1234', and a carriage
      return as the dialing suffix.

      This object may not be modified if the associated
      serialConnectStatus object is equal to active(1)."
   ::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq  OBJECT-TYPE
   SYNTAX     ControlString (SIZE(0..255))
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "A control string that specifies how to establish a
      data switch connection.

      This object may not be modified if the associated
      serialConnectStatus object is
 equal to active(1)."
    ::= { serialConnectionEntry 5 }
```

```
serialConnectSwitchDisconnectSeq  OBJECT-TYPE
  SYNTAX     ControlString (SIZE(0..255))



  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "A control string that specifies how to terminate a
     data switch connection.

     This object may not be modified if the associated
     serialConnectStatus object is equal to active(1)."
  ::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq  OBJECT-TYPE
  SYNTAX     ControlString (SIZE(0..255))
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "A control string that specifies how to reset a data
     switch in the event of a timeout.

     This object may not be modified if the associated
     serialConnectStatus object is equal to active(1)."
  ::= { serialConnectionEntry 7 }

serialConnectOwner  OBJECT-TYPE
  SYNTAX     OwnerString
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
      "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { serialConnectionEntry 8 }

serialConnectStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The status of this serialConnectionEntry.

     If the manager attempts to set this object to active(1) when
     the serialConnectType is set to modem(2) or modem-switch(4)
     and the serialConnectDialString is a zero-length string or
     cannot be correctly parsed as a ConnectString, the set
```

request will be rejected with badValue(3).

If the manager attempts to set this object to active(1) when
the serialConnectType is set to switch(3) or modem-switch(4)
and the serialConnectSwitchConnectSeq,
the serialConnectSwitchDisconnectSeq, or

the serialConnectSwitchResetSeq is a zero-length string
or cannot be correctly parsed as a ConnectString,
the set
request will be rejected with badValue(3).

An entry may not exist in the active state unless all
objects in the entry have an appropriate value."
::= { serialConnectionEntry 9 }

```
--
-- Extensions to the RMON 1 MIB for RMON 2 devices
--
-- These extensions include the standard LastCreateTime Textual
-- Convention for all control tables, as well as an augmentation of
-- the filter entry that provides variable-length offsets into
-- packets.


-- Each of the following, except for filterDroppedFrames, is a
-- read-only object which, if implemented, automatically appears when
-- the RMON1 row it is associated with is created.

etherStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF EtherStats2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { statistics 4 }

etherStats2Entry  OBJECT-TYPE
  SYNTAX     EtherStats2Entry
  MAX-ACCESS not-accessible
  STATUS
    current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { etherStatsEntry }
  ::= { etherStats2Table 1 }
```

```
EtherStats2Entry ::= SEQUENCE {
  etherStatsDroppedFrames     Counter32,
  etherStatsCreateTime        LastCreateTime
}

etherStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION


     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { etherStats2Entry
 1 }

etherStatsCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { etherStats2Entry 2 }

historyControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF HistoryControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { history 5 }
```

```
historyControl2Entry  OBJECT-TYPE
  SYNTAX     HistoryControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { historyControlEntry }
  ::= { historyControl2Table 1 }

HistoryControl2Entry ::= SEQUENCE {
  historyControlDroppedFrames Counter32
}

historyControlDroppedFrames
 OBJECT-TYPE
  SYNTAX     Counter32



  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the
     probe is out of some resources and decides to shed load from
     this collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

     Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { historyControl2Entry 1 }

hostControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF HostControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { hosts 4 }

hostControl2Entry  OBJECT-TYPE
  SYNTAX     HostControl2Entry
   MAX-ACCESS not-accessible
  STATUS     current
```

```
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { hostControlEntry }
  ::= { hostControl2Table 1 }

HostControl2Entry ::= SEQUENCE {
  hostControlDroppedFrames    Counter32,
  hostControlCreateTime       LastCreateTime
}

hostControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the




      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number
 of frames dropped."
  ::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { hostControl2Entry 2 }

matrixControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF MatrixControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
```

```
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { matrix 4 }

matrixControl2Entry  OBJECT-TYPE
  SYNTAX     MatrixControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { matrixControlEntry }
  ::= { matrixControl2Table 1 }

MatrixControl2Entry ::= SEQUENCE {
  matrixControlDroppedFrames  Counter32,
   matrixControlCreateTime     LastCreateTime
}

matrixControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION



     "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the
     probe is out of some resources and decides to shed load from
     this collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

     Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { matrixControl2Entry 1 }

matrixControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
```

```
    activated.  This can be used by the management station to
       ensure that the table has not been deleted and recreated
       between polls."
    ::= { matrixControl2Entry 2 }

channel2Table  OBJECT-TYPE
    SYNTAX     SEQUENCE OF Channel2Entry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
       "Contains the RMON-2 augmentations to RMON-1."
    ::= { filter 3 }

channel2Entry  OBJECT-TYPE
    SYNTAX     Channel2Entry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
       "Contains the RMON-2 augmentations to RMON-1."
    AUGMENTS { channelEntry }
    ::= { channel2Table 1 }

Channel2Entry ::= SEQUENCE {
    channelDroppedFrames    Counter32,
    channelCreateTime       LastCreateTime
}

channelDroppedFrames OBJECT-TYPE



    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The total number of frames that were received by the probe
       and therefore not accounted for in the *StatsDropEvents,
 but
       that the probe chose not to count for this entry for
       whatever reason.  Most often, this event occurs when the
       probe is out of some resources and decides to shed load from
       this collection.

       This count does not include packets that were not counted
       because they had MAC-layer errors.

       Note that, unlike the dropEvents counter, this number is the
       exact number of frames dropped."
```

```
  ::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
     activated.  This can be used by the management station to
     ensure that the table has not been deleted and recreated
     between polls."
  ::= { channel2Entry 2 }

tokenRingMLStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF TokenRingMLStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated

 DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1.

     This table has been deprecated, as it has not had enough
     independent implementations to demonstrate interoperability
     to meet the requirements of a Draft Standard."
  ::= { statistics 5 }

tokenRingMLStats2Entry  OBJECT-TYPE
  SYNTAX     TokenRingMLStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { tokenRingMLStatsEntry }



  ::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {
  tokenRingMLStatsDroppedFrames       Counter32,
  tokenRingMLStatsCreateTime          LastCreateTime
}

tokenRingMLStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
```

"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe
chose not to count for this entry for
whatever reason. Most often, this event occurs when the
probe is out of some resources and decides to shed load from
this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { tokenRingMLStats2Entry 1 }

tokenRingMLStatsCreateTime OBJECT-TYPE
SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"The value of sysUpTime when this control entry was last
activated. This can be used by the management station to
ensure that the table has not been deleted and recreated
between polls."
::= { tokenRingMLStats2Entry 2 }

tokenRingPStats2Table OBJECT-TYPE
SYNTAX SEQUENCE OF TokenRingPStats2Entry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"Contains the RMON-2 augmentations to RMON-1.

This table has been deprecated, as it has not had enough
independent implementations to demonstrate interoperability
to meet the requirements of a Draft Standard."
::= { statistics 6 }

tokenRingPStats2Entry OBJECT-TYPE
SYNTAX TokenRingPStats2Entry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"Contains the RMON-2 augmentations to RMON-1."
AUGMENTS { tokenRingPStatsEntry }
::= { tokenRingPStats2Table 1 }

```
TokenRingPStats2Entry ::= SEQUENCE {
  tokenRingPStatsDroppedFrames    Counter32,
  tokenRingPStatsCreateTime       LastCreateTime
}

tokenRingPStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count
 for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { tokenRingPStats2Entry 2 }

ringStationControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF RingStationControl2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated



  DESCRIPTION

     "Contains the RMON-2 augmentations to RMON-1.
```

```
      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
  ::= { tokenRing 7 }

ringStationControl2Entry  OBJECT-TYPE
  SYNTAX     RingStationControl2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { ringStationControlEntry }
  ::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {
  ringStationControlDroppedFrames Counter32,
  ringStationControlCreateTime    LastCreateTime
}

ringStationControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to
 count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { ringStationControl2Entry 1 }

ringStationControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
```

```
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { ringStationControl2Entry 2 }

sourceRoutingStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF SourceRoutingStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1.

      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
  ::= { tokenRing 8 }

sourceRoutingStats2Entry  OBJECT-TYPE
  SYNTAX     SourceRoutingStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { sourceRoutingStatsEntry }
  ::= { sourceRoutingStats2Table 1 }

SourceRoutingStats2Entry ::= SEQUENCE {
  sourceRoutingStatsDroppedFrames Counter32,
  sourceRoutingStatsCreateTime    LastCreateTime
}

sourceRoutingStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose
 not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
```

```
      exact number of frames dropped."
  ::= { sourceRoutingStats2Entry 1 }



sourceRoutingStatsCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE
  SYNTAX     SEQUENCE OF Filter2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "Provides
 a variable-length packet filter feature to the
      RMON-1 filter table."
  ::= { filter 4 }

filter2Entry OBJECT-TYPE
  SYNTAX     Filter2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "Provides a variable-length packet filter feature to the
      RMON-1 filter table."
  AUGMENTS { filterEntry }
  ::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {
  filterProtocolDirDataLocalIndex     Integer32,
  filterProtocolDirLocalIndex         Integer32
}

filterProtocolDirDataLocalIndex OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
      "When this object is set to a non-zero value, the filter that
      it is associated with performs the following operations on
```

```
        every packet:

        1) If the packet doesn't match the protocol directory entry
           identified by this object, discard the packet and exit
           (i.e., discard the packet if it
 is not of the identified
           protocol).



        2) If the associated filterProtocolDirLocalIndex is non-zero
           and the packet doesn't match the protocol directory
           entry identified by that object, discard the packet and
           exit.
        3) If the packet matches, perform the regular filter
           algorithm as if the beginning of this named protocol is
           the beginning of the packet, potentially applying the
           filterOffset value to move further into the packet."
    DEFVAL { 0 }
    ::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE
    SYNTAX     Integer32 (0..2147483647)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
       "When this object is set to a non-zero value, the filter that
       it is associated with will discard the packet if the packet
       doesn't match this protocol directory entry."
    DEFVAL { 0 }
    ::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT
 IDENTIFIER ::= { rmonConformance 1 }
rmon2MIBGroups      OBJECT IDENTIFIER ::= { rmonConformance 2 }



rmon2MIBCompliance MODULE-COMPLIANCE
    STATUS  current
    DESCRIPTION
       "Describes the requirements for conformance to
       the RMON2 MIB"
    MODULE  -- this module
       MANDATORY-GROUPS { protocolDirectoryGroup,
                          protocolDistributionGroup,
                          addressMapGroup,
```

```
                nlHostGroup,
                nlMatrixGroup,
                usrHistoryGroup,
                probeInformationGroup }

    OBJECT nlMatrixTopNControlRateBase
      SYNTAX     INTEGER {
                   nlMatrixTopNPkts(1),
                   nlMatrixTopNOctets(2)
                 }
      DESCRIPTION


        "Conformance to RMON2 requires only support for these
        values of nlMatrixTopNControlRateBase."

    GROUP   rmon1EnhancementGroup
       DESCRIPTION
        "The rmon1EnhancementGroup is mandatory for systems
        that implement RMON [RFC2819]."
    GROUP  rmon1EthernetEnhancementGroup
      DESCRIPTION
        "The rmon1EthernetEnhancementGroup is optional and is
        appropriate for systems that implement the Ethernet
        group of RMON [RFC2819]."
  ::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE
  STATUS  current
  DESCRIPTION
    "Describes the requirements for conformance to
    the RMON2 MIB with Application-Layer Enhancements."
  MODULE  -- this module
    MANDATORY-GROUPS { protocolDirectoryGroup,
                protocolDistributionGroup,
                addressMapGroup,
                nlHostGroup,
                nlMatrixGroup,
                alHostGroup,
                alMatrixGroup,
                usrHistoryGroup,
                 probeInformationGroup }

    OBJECT nlMatrixTopNControlRateBase
      SYNTAX     INTEGER {
                   nlMatrixTopNPkts(1),
                   nlMatrixTopNOctets(2)
```

```
                }
        DESCRIPTION
          "Conformance to RMON2 requires only support for these
          values of nlMatrixTopNControlRateBase."

      OBJECT alMatrixTopNControlRateBase
        SYNTAX     INTEGER {
                     alMatrixTopNTerminalsPkts(1),
                     alMatrixTopNTerminalsOctets(2),
                     alMatrixTopNAllPkts(3),
                     alMatrixTopNAllOctets(4)
                   }
        DESCRIPTION
          "Conformance to RMON2 requires only support for these




          values of alMatrixTopNControlRateBase."

      GROUP   rmon1EnhancementGroup
        DESCRIPTION
          "The rmon1EnhancementGroup is mandatory
 for systems
          that implement RMON [RFC2819]."
      GROUP  rmon1EthernetEnhancementGroup
        DESCRIPTION
          "The rmon1EthernetEnhancementGroup is optional and is
          appropriate for systems that implement the Ethernet
          group of RMON [RFC2819]."
  ::= { rmon2MIBCompliances 2 }


protocolDirectoryGroup OBJECT-GROUP
  OBJECTS { protocolDirLastChange,
            protocolDirLocalIndex, protocolDirDescr,
            protocolDirType, protocolDirAddressMapConfig,
            protocolDirHostConfig, protocolDirMatrixConfig,
            protocolDirOwner, protocolDirStatus }
  STATUS  current
  DESCRIPTION
     "Lists the inventory of protocols the probe has the
     capability of monitoring and allows the addition, deletion,
     and configuration of entries in this list."
  ::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP
  OBJECTS { protocolDistControlDataSource,
            protocolDistControlDroppedFrames,
```

```
            protocolDistControlCreateTime,
            protocolDistControlOwner, protocolDistControlStatus,
            protocolDistStatsPkts, protocolDistStatsOctets }
    STATUS  current
    DESCRIPTION
        "Collects the relative amounts of octets and packets for the
        different protocols detected on a network segment."
    ::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP
    OBJECTS { addressMapInserts, addressMapDeletes,
              addressMapMaxDesiredEntries,
              addressMapControlDataSource,
              addressMapControlDroppedFrames,
              addressMapControlOwner, addressMapControlStatus,
              addressMapPhysicalAddress,
              addressMapLastChange }
    STATUS  current



    DESCRIPTION
        "Lists MAC address to network address bindings discovered by
        the probe and what interface they were last seen on."
    ::= { rmon2MIBGroups 3 }

nlHostGroup OBJECT-GROUP
    OBJECTS { hlHostControlDataSource,
              hlHostControlNlDroppedFrames, hlHostControlNlInserts,
              hlHostControlNlDeletes,
              hlHostControlNlMaxDesiredEntries,
              hlHostControlAlDroppedFrames, hlHostControlAlInserts,
              hlHostControlAlDeletes,
              hlHostControlAlMaxDesiredEntries, hlHostControlOwner,
              hlHostControlStatus, nlHostInPkts, nlHostOutPkts,
              nlHostInOctets, nlHostOutOctets,
              nlHostOutMacNonUnicastPkts, nlHostCreateTime }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic sent from and to each network
        address discovered by the probe.  Note that while the
        hlHostControlTable also has objects that control an optional
        alHostTable, implementation of the alHostTable is not
        required to fully implement this group."
    ::= { rmon2MIBGroups 4 }

nlMatrixGroup OBJECT-GROUP
    OBJECTS { hlMatrixControlDataSource,
```

```
            hlMatrixControlNlDroppedFrames,
             hlMatrixControlNlInserts, hlMatrixControlNlDeletes,
            hlMatrixControlNlMaxDesiredEntries,
            hlMatrixControlAlDroppedFrames,
            hlMatrixControlAlInserts, hlMatrixControlAlDeletes,
            hlMatrixControlAlMaxDesiredEntries,
            hlMatrixControlOwner, hlMatrixControlStatus,
            nlMatrixSDPkts, nlMatrixSDOctets, nlMatrixSDCreateTime,
            nlMatrixDSPkts, nlMatrixDSOctets, nlMatrixDSCreateTime,
            nlMatrixTopNControlMatrixIndex,
            nlMatrixTopNControlRateBase,
            nlMatrixTopNControlTimeRemaining,
            nlMatrixTopNControlGeneratedReports,
            nlMatrixTopNControlDuration,
            nlMatrixTopNControlRequestedSize,
            nlMatrixTopNControlGrantedSize,
            nlMatrixTopNControlStartTime,
            nlMatrixTopNControlOwner, nlMatrixTopNControlStatus,
            nlMatrixTopNProtocolDirLocalIndex,
            nlMatrixTopNSourceAddress,
 nlMatrixTopNDestAddress,
            nlMatrixTopNPktRate, nlMatrixTopNReversePktRate,



            nlMatrixTopNOctetRate, nlMatrixTopNReverseOctetRate }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic sent between each pair of
        network addresses discovered by the probe.  Note that while
        the hlMatrixControlTable also has objects that control
        optional alMatrixTables, implementation of the
        alMatrixTables is not required to fully implement this
        group."
    ::= { rmon2MIBGroups 5 }

alHostGroup OBJECT-GROUP
    OBJECTS { alHostInPkts, alHostOutPkts,
            alHostInOctets, alHostOutOctets, alHostCreateTime }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic, by protocol, sent from and to
        each network address discovered by the probe.  Implementation
        of this group requires implementation of the Network-Layer
        Host Group."
    ::= { rmon2MIBGroups 6 }

alMatrixGroup
```

```
 OBJECT-GROUP
   OBJECTS { alMatrixSDPkts, alMatrixSDOctets, alMatrixSDCreateTime,
             alMatrixDSPkts, alMatrixDSOctets, alMatrixDSCreateTime,
             alMatrixTopNControlMatrixIndex,
             alMatrixTopNControlRateBase,
             alMatrixTopNControlTimeRemaining,
             alMatrixTopNControlGeneratedReports,
             alMatrixTopNControlDuration,
             alMatrixTopNControlRequestedSize,
             alMatrixTopNControlGrantedSize,
             alMatrixTopNControlStartTime,
             alMatrixTopNControlOwner, alMatrixTopNControlStatus,
             alMatrixTopNProtocolDirLocalIndex,
             alMatrixTopNSourceAddress, alMatrixTopNDestAddress,
             alMatrixTopNAppProtocolDirLocalIndex,
             alMatrixTopNPktRate, alMatrixTopNReversePktRate,
             alMatrixTopNOctetRate, alMatrixTopNReverseOctetRate }
   STATUS  current
   DESCRIPTION
      "Counts the amount of traffic, by protocol, sent between each
       pair of network addresses discovered by the
      probe.  Implementation of this group requires implementation
      of the Network-Layer Matrix Group."
   ::= { rmon2MIBGroups 7 }

usrHistoryGroup OBJECT-GROUP



   OBJECTS { usrHistoryControlObjects,
             usrHistoryControlBucketsRequested,
             usrHistoryControlBucketsGranted,
             usrHistoryControlInterval,
             usrHistoryControlOwner, usrHistoryControlStatus,
             usrHistoryObjectVariable, usrHistoryObjectSampleType,
             usrHistoryIntervalStart, usrHistoryIntervalEnd,
             usrHistoryAbsValue, usrHistoryValStatus }
   STATUS  current
   DESCRIPTION
      "The usrHistoryGroup provides user-defined collection of
      historical information from MIB objects on the probe."
   ::= { rmon2MIBGroups 8 }

probeInformationGroup OBJECT-GROUP
   OBJECTS { probeCapabilities,
             probeSoftwareRev, probeHardwareRev, probeDateTime }
   STATUS  current
```

```
    DESCRIPTION
        "This group describes various operating parameters of the
        probe and controls the local time of the probe."
    ::= { rmon2MIBGroups 9 }

probeConfigurationGroup OBJECT-GROUP
    OBJECTS { probeResetControl, probeDownloadFile,
              probeDownloadTFTPServer, probeDownloadAction,
              probeDownloadStatus,
              serialMode, serialProtocol, serialTimeout,
              serialModemInitString, serialModemHangUpString,
              serialModemConnectResp, serialModemNoConnectResp,
              serialDialoutTimeout, serialStatus,
              netConfigIPAddress, netConfigSubnetMask,
              netConfigStatus, netDefaultGateway,
              trapDestCommunity, trapDestProtocol, trapDestAddress,
              trapDestOwner, trapDestStatus,
              serialConnectDestIpAddress, serialConnectType,
              serialConnectDialString, serialConnectSwitchConnectSeq,
              serialConnectSwitchDisconnectSeq,
              serialConnectSwitchResetSeq,
               serialConnectOwner, serialConnectStatus }
    STATUS  deprecated
    DESCRIPTION
        "This group controls the configuration of various operating
        parameters of the probe.  This group is not referenced by any
        MODULE-COMPLIANCE macro because it is 'grandfathered' from
        more recent MIB review rules that would require it."
    ::= { rmon2MIBGroups 10 }




rmon1EnhancementGroup OBJECT-GROUP
    OBJECTS { historyControlDroppedFrames, hostControlDroppedFrames,
              hostControlCreateTime, matrixControlDroppedFrames,
              matrixControlCreateTime, channelDroppedFrames,
              channelCreateTime, filterProtocolDirDataLocalIndex,
              filterProtocolDirLocalIndex }
    STATUS  current
    DESCRIPTION
        "This group adds some enhancements to RMON-1 that help
        management stations."
    ::= { rmon2MIBGroups 11 }

rmon1EthernetEnhancementGroup OBJECT-GROUP
    OBJECTS { etherStatsDroppedFrames,
```

```
 etherStatsCreateTime }
  STATUS  current
  DESCRIPTION
     "This group adds some enhancements to RMON-1 that help
     management stations."
  ::= { rmon2MIBGroups 12 }

rmon1TokenRingEnhancementGroup OBJECT-GROUP
  OBJECTS { tokenRingMLStatsDroppedFrames,
            tokenRingMLStatsCreateTime,
            tokenRingPStatsDroppedFrames, tokenRingPStatsCreateTime,
            ringStationControlDroppedFrames,
            ringStationControlCreateTime,
            sourceRoutingStatsDroppedFrames,
            sourceRoutingStatsCreateTime }
  STATUS  deprecated
  DESCRIPTION
     "This group adds some enhancements to RMON-1 that help
     management stations.  This group is not referenced by any
     MODULE-COMPLIANCE macro because it is 'grandfathered' from
     more recent MIB review rules that would require it."
  ::= { rmon2MIBGroups 13 }
END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-MIB
No license file was found, but licenses were detected in source scan.

SNA-NAU-MIB DEFINITIONS ::= BEGIN

-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7.  It also contains generic objects
-- which can be used to manage LU 6.2.

-- Naming conventions in this document:
-- The following names are used in object descriptors according to
-- SNA conventions.
-- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
-- 2.1.
-- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
-- 4,7 or 6.2.



IMPORTS
     DisplayString, RowStatus, TimeStamp, InstancePointer
          FROM SNMPv2-TC
```

```
        Counter32, Gauge32, Integer32, mib-2,
        OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
            FROM SNMPv2-SMI

        MODULE-COMPLIANCE, OBJECT-GROUP
            FROM SNMPv2-CONF;


snanauMIB MODULE-IDENTITY
    LAST-UPDATED  "9405120900Z"

  ORGANIZATION  "IETF SNA NAU MIB Working Group"
    CONTACT-INFO
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    DESCRIPTION
          "This is the MIB module for objects used to
           manage
 SNA devices."
::= { mib-2 34 }

-- The SNANAU MIB module contains an objects part and a conformance part.
-- Objects are organized into the following groups:
-- (1)snaNode group,
-- (2)snaLU group,
-- (3)snaMgtTools group.

snanauObjects   OBJECT IDENTIFIER ::= { snanauMIB 1 }
```

```
snaNode      OBJECT IDENTIFIER ::= { snanauObjects 1 }
snaLu        OBJECT IDENTIFIER ::= { snanauObjects 2 }
snaMgtTools   OBJECT IDENTIFIER ::= { snanauObjects 3}


-- ****************************************************************
-- snaNode group
--
-- It contains Managed Objects related to any type of Node and
-- some specific objects for Node Type 2.0.
-- ****************************************************************


-- ****************************************************************
-- The following table contains generic Node configuration
-- parameters.
-- ****************************************************************

snaNodeAdminTable OBJECT-TYPE
     SYNTAX  SEQUENCE OF SnaNodeAdminEntry
      MAX-ACCESS  not-accessible
     STATUS  current
     DESCRIPTION
          "This table contains objects which describe the
          configuration parameters for an SNA Node.  Link
          specific configuration objects are contained in
          a separate MIB module (e.g., SNA DLC MIB)
          corresponding to the link type.
          The table snaNodeAdminLinkTable contains objects
          which identify the relationship between node instances
          and link instances.

          The entries (i.e., rows) in this table can be created
          by either an Agent or a Management Station.
          The Management Station can do this through setting
          the appropriate value in the snaNodeAdminRowStatus.

          The snaNodeAdminRowStatus object describes the
          status of an entry and is used to change the status
          of an entry.  The entry is deleted
by an Agent based
          on the value of the snaNodeAdminRowStatus.

          The snaNodeAdminState object describes the desired
          operational state of a Node and is used to change the
          operational state of a Node.  For example, such
          information may be obtained from a configuration file.
```

```
            How an Agent or a Management Station obtains the
            initial value of each object at creation time is an
            implementation specific issue.

            For each entry in this table, there is a corresponding
            entry in the snaNodeOperTable.
            While the objects in this table describe the desired
            or configured operational values of the SNA Node, the
            actual runtime values are contained in
            snaNodeOperTable."
        ::= { snaNode 1 }

snaNodeAdminEntry OBJECT-TYPE
        SYNTAX  SnaNodeAdminEntry
        MAX-ACCESS  not-accessible
         STATUS  current
        DESCRIPTION
            "An entry contains the configuration parameters for
            one SNA Node instance. The objects in the entry
            have read-create access.
            An entry can be created, modified or deleted.  The
            object snaNodeAdminRowStatus is used (i.e., set) to
            create or delete a row entry."
        INDEX  { snaNodeAdminIndex }
        ::= { snaNodeAdminTable 1 }

SnaNodeAdminEntry ::= SEQUENCE {
        snaNodeAdminIndex
            Integer32,
        snaNodeAdminName
            DisplayString,
        snaNodeAdminType
            INTEGER,
        snaNodeAdminXidFormat
            INTEGER,
        snaNodeAdminBlockNum
            DisplayString,
        snaNodeAdminIdNum
            DisplayString,
        snaNodeAdminEnablingMethod
            INTEGER,
        snaNodeAdminLuTermDefault
            INTEGER,
        snaNodeAdminMaxLu

       Integer32,
        snaNodeAdminHostDescription
```

```
            DisplayString,
        snaNodeAdminStopMethod
            INTEGER,
        snaNodeAdminState
            INTEGER,
        snaNodeAdminRowStatus
            RowStatus
        }

    snaNodeAdminIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Index used to uniquely identify each Node instance.
            If an Agent creates the entry, then it will assign
            this number otherwise a Management Station
            generates a random number when it reserves the
            entry for creation."
        ::= { snaNodeAdminEntry 1 }

    snaNodeAdminName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..17))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the desired name of the
            Node for use during Node activation.

      In Type 2.1 networks, this is a fully-qualified name,
            meaning that the Node name is preceded by the NetId (if
            present) with a period as the delimiter.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperName until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 2 }

    snaNodeAdminType OBJECT-TYPE
        SYNTAX  INTEGER {
            other(1),
            pu10(2),
            pu20(3),
            t21len(4),
            endNode(5),
            networkNode(6)
```

```
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the type of SNA Node.

            A write operation to this object will
            not change the operational value reflected

 in snaNodeOperType until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 3 }

snaNodeAdminXidFormat OBJECT-TYPE
        SYNTAX  INTEGER  {
            format0(1),
            format1(2),
            format3(3)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the type of XID format used for
            this Node.  Note that there is no format type 2.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperAdminXidFormat until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(3))
        MAX-ACCESS  read-create
        STATUS
  current
        DESCRIPTION
            "The value indicates the block number for this Node
            instance.  It is the first 3 hexadecimal digits of the
            SNA Node id.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperBlockNum until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
```

::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE
SYNTAX DisplayString (SIZE(5))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The value indicates the ID number for this Node
instance. This is the last 5 hexadecimal digits of
the SNA Node id.

A write operation to this object will
not change the operational value reflected
in snaNodeOperIdNum until the Node has
been re-activated (e.g., after the next initialization
of the SNA services)."
::= { snaNodeAdminEntry 6 }

snaNodeAdminEnablingMethod OBJECT-TYPE
SYNTAX INTEGER {
other (1),
startup (2),
demand (3),
onlyMS (4)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The value indicates how the Node should be
activated for the first time.
The values have the following meanings:

other (1) - may be used for proprietary methods
not listed in this enumeration,
startup (2) - at SNA services' initialization time
(this is the default),
demand (3) - only when LU is requested by application,
or
onlyMS (4) - by a Management Station only.

A write operation
to this object may immediately
change the operational value reflected
in snaNodeOperEnablingMethod depending
on the Agent implementation. If the Agent
implementation accepts immediate changes, then the
behavior of the Node changes immediately and not only
after the next system startup of the SNA services.

```
            An immediate change may only apply when the
            current value 'demand (3)' is changed to 'onlyMS (4)'
            and vice versa."
        ::= { snaNodeAdminEntry 7 }

snaNodeAdminLuTermDefault OBJECT-TYPE
      SYNTAX  INTEGER {
            unbind (1),
            termself (2),
            rshutd (3),
            poweroff(4)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the desired default method
            used to deactivate LUs for this Node
             For LU6.2s, 'unbind(1)' is the only valid value.

            unbind(1) -   terminate the LU-LU session by sending
                  an SNA UNBIND request.
            termself(2) - terminate the LU-LU session by sending
                  an SNA TERM-SELF (Terminate Self) request on
                  the SSCP-LU session. The SSCP will inform the
                  remote session LU partner to send an UNBIND
                  request to terminate the session.
            rshutd(3) -   terminate the LU-LU session by sending
                  an SNA RSHUTD (Request ShutDown) request to
                  the remote session LU partner. The remote LU
                  will then send an UNBIND request to terminate
                  the session.
            poweroff(4) - terminate the LU-LU session by sending
                  either an SNA LUSTAT (LU Status) request on
                  the LU-LU
 session or an SNA NOTIFY request on
                  the SSCP-LU session indicating that the LU has
                  been powered off. Sending both is also
                  acceptable. The result should be that the
                  remote session LU partner will send an UNBIND
                  to terminate the session.

            The default behavior indicated by the value of this
            object may be overridden for an LU instance. The
            override is performed by setting the snaLuAdminTerm
            object instance in the snaLuAdminTable to the desired
            value.

            A write operation to this object may immediately
```

```
            change the operational value reflected
            in snaNodeOperLuTermDefault depending
            on the Agent implementation."
        ::= { snaNodeAdminEntry 8 }

snaNodeAdminMaxLu OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The maximum number of LUs that may be
            activated for this Node. For PU2.1, this object
            refers to the number of dependent LUs.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperMaxLu until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 9 }

snaNodeAdminHostDescription OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..128))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value identifies the remote host associated
            with this Node.
            Since SSCP Id's may not be unique
            across hosts, the host description
            is required to uniquely identify the SSCP.
            This object
 is only applicable to PU2.0 type
            Nodes. If the remote host is unknown, then the
            value is the null string.

            A write operation to this object may immediately
            change the operational value reflected
            in snaNodeOperHostDescription depending
            on the Agent implementation."
        ::= { snaNodeAdminEntry 10 }

snaNodeAdminStopMethod OBJECT-TYPE
        SYNTAX  INTEGER {
            other (1),
            normal (2),
            immed (3),
            force (4)
```

```
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the desired method to be used
            by the Agent to stop a Node (i.e., change the Node's
            operational state to inactive(1) ).

            The values have the following meaning:

            other (1) - used for proprietary
                 methods not listed in this enumeration.
            normal(2) - deactivate only when there is no more
                activity on this Node (i.e., all data flows
                have been completed and all sessions
                have been terminated).
            immed(3)  - deactivate immediately regardless of
                current activities on this Node. Wait for
                deactivation responses (from remote Node)
                before changing the Node state to inactive.
            force(4)  - deactivate immediately regardless of
                current activities on this Node. Do not wait
                for deactivation responses (from remote Node)
                before changing the Node state to inactive.

            A write operation to this object may immediately
            change the operational value reflected
            in snaNodeOperStopMethod
 depending
            on the Agent implementation."
        ::= { snaNodeAdminEntry 11 }

snaNodeAdminState OBJECT-TYPE
        SYNTAX  INTEGER {
            inactive (1),
            active (2)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the desired operational
             state of the SNA Node. This object is used
             by the Management Station to
             activate or deactivate the Node.

            If the current value in snaNodeOperState is
            'active (2)', then setting this object to
            'inactive (1)' will initiate the Node shutdown
```

process using the method indicated
by snaNodeOperStopMethod.

If the current value in snaNodeOperState is
'inactive (1)', then setting this object to
'active (2)'
will initiate the
Node's activation.

A Management Station can always set this object to
'active (2)' irrespective of the value in the
snaOperEnablingMethod."
::= { snaNodeAdminEntry 12 }

snaNodeAdminRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object is used by a Management Station to
create or delete the row entry in the
snaNodeAdminTable following
the RowStatus textual convention.

Upon successful creation of
the row, an Agent automatically creates a
corresponding entry in the snaNodeOperTable with
snaNodeOperState equal to 'inactive (1)'.

Row deletion can be Management Station or Agent
initiated:
(a) The Management
Station can set the value to
'destroy (6)' only when the value of
snaNodeOperState of this Node instance is
'inactive (1)'. The Agent will then delete the rows
corresponding to this Node instance from the
snaNodeAdminTable and the snaNodeOperTable.
(b) The Agent detects that a row is in the
'notReady (3)' state for greater than a
default period of 5 minutes.
(c) All rows with the snaNodeAdminRowStatus object's
value of 'notReady (3)' will be removed upon the
next initialization of the SNA services."
::= { snaNodeAdminEntry 13 }

-- **********

```
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeAdminTable.
-- ***************************************************************

snaNodeAdminTableLastChange
 OBJECT-TYPE
       SYNTAX  TimeStamp
       MAX-ACCESS  read-only
       STATUS  current
       DESCRIPTION
            "The value indicates the timestamp
            (e.g., the Agent's sysUpTime value) of the last
            change made to any object in the snaNodeAdminTable,
            including row deletions/additions (e.g., changes to
            snaNodeAdminRowStatus values).

            This object can be used to reduce frequent
            retrievals of the snaNodeAdminTable by a Management
            Station. It is expected that a Management Station
            will periodically poll this object and compare its
            current value with the previous one. A difference
            indicates that some Node configuration information
            has been changed. Only then will the Management
            Station retrieve the entire table."
       ::= { snaNode
 2 }


-- ***************************************************************
-- The following table contains Node operational parameters.
-- ***************************************************************

snaNodeOperTable OBJECT-TYPE
       SYNTAX  SEQUENCE OF SnaNodeOperEntry
       MAX-ACCESS  not-accessible
       STATUS  current
       DESCRIPTION
            "This table contains the dynamic parameters which
            have read-only access. These objects reflect the
            actual status of the Node. The entries in this
            table cannot be created or modified by a
            Management Station.
            This table augments the snaNodeAdminTable."
       ::= { snaNode 3 }

snaNodeOperEntry OBJECT-TYPE
       SYNTAX  SnaNodeOperEntry
       MAX-ACCESS  not-accessible
```

```
        STATUS  current
        DESCRIPTION
                "The entry contains parameters which describe the
                state of
 one Node. The entries are created by the
                Agent. They have read-only access."
        AUGMENTS   { snaNodeAdminEntry }
        ::= { snaNodeOperTable 1 }

SnaNodeOperEntry ::= SEQUENCE {
        snaNodeOperName
                DisplayString,
        snaNodeOperType
                INTEGER,
        snaNodeOperXidFormat
                INTEGER,
        snaNodeOperBlockNum
                DisplayString,
        snaNodeOperIdNum
                DisplayString,
        snaNodeOperEnablingMethod
                INTEGER,
        snaNodeOperLuTermDefault
                INTEGER,
        snaNodeOperMaxLu
                Integer32,
        snaNodeOperHostDescription
                DisplayString,
        snaNodeOperStopMethod
                INTEGER,
        snaNodeOperState
                INTEGER,
        snaNodeOperHostSscpId
                OCTET STRING,
        snaNodeOperStartTime
                TimeStamp,
        snaNodeOperLastStateChange
                 TimeStamp,
        snaNodeOperActFailures
                Counter32,
        snaNodeOperActFailureReason
                INTEGER
        }

snaNodeOperName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..17))
        MAX-ACCESS  read-only
        STATUS  current
```

```
        DESCRIPTION
            "The value identifies the current name of the Node.
            In Type 2.1 networks, this
            is a fully-qualified name, meaning that the Node name
            is preceded by the NetId (if present) with a period
            as the delimiter."
        ::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE
        SYNTAX  INTEGER {
                other(1),
                pu10(2),
                pu20(3),
                t21LEN(4),
                endNode(5),
                networkNode(6)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the current type of the Node."
        ::= { snaNodeOperEntry 2 }

snaNodeOperXidFormat OBJECT-TYPE
        SYNTAX  INTEGER  {
                format0 (1),
                format1 (2),
                format3 (3)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the type of XID format currently
                 used for this Node.
                 Note that there is no format type 2."
        ::= { snaNodeOperEntry 3 }

snaNodeOperBlockNum OBJECT-TYPE
        SYNTAX DisplayString (SIZE(3))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the block number for this Node
                instance. It is the first 3 hexadecimal digits
                of the SNA Node id."
        ::= { snaNodeOperEntry 4 }

snaNodeOperIdNum OBJECT-TYPE
```

```
        SYNTAX  DisplayString (SIZE(5))
         MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
              "The value identifies the ID number for this Node
              instance.  This is the last 5 hexadecimal digits of
              the SNA Node id."
        ::= { snaNodeOperEntry 5 }

snaNodeOperEnablingMethod OBJECT-TYPE
        SYNTAX  INTEGER {
              other (1),
              startup (2),
              demand (3),
              onlyMS (4)
              }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
              "The value indicates how the Node is activated for
              the first time.
              The values have the following meanings:
                other (1)   - not at boot time, LU activation
                  or by a Management Station;
                startup (2) - at SNA services' initialization
                  time (this is the default),

     demand (3)  - only when LU is requested by
                  application,
                onlyMS (4) - by a network Management Station
                  only."
        ::= { snaNodeOperEntry 6 }

snaNodeOperLuTermDefault OBJECT-TYPE
        SYNTAX  INTEGER {
              unbind (1),
              termself (2),
              rshutd (3),
              poweroff (4)
              }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
             "The value identifies the default method used to
             deactivate LUs for this Node.
             For LU6.2s, 'unbind(1)' is the only valid value.

             unbind(1) -   terminate the LU-LU session by sending
```

an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session.

This object describes the default behavior for this Node; however, it is possible that for a specific LU the behavior indicated by the snaLuOperTerm object is different."

::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This value identifies the current, maximum number of LUs that are activated for this Node. For PU2.1, this object refers to the number of dependent LUs."
::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..128))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This value identifies the remote host currently associated with this Node.
Since SSCP Id's may not be unique across hosts, the

```
host description
            is required to uniquely identify the SSCP."
      ::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE
      SYNTAX  INTEGER {
            other (1),
            normal (2),
            immed (3),
            force (4)
            }
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION
            "This value identifies the current Node shutdown
            method to be used by the Agent to stop the Node.
            When the Agent changes the Node's state to 'inactive
            (1)', the Agent must use the shutdown method
            indicated by this object.

            The values have the following meaning:

            other (1) - proprietary method not listed in this
                  enumeration
            normal(2) - deactivate only when there is no more
                activity on this Node (i.e., all
data flows
                have been completed and all sessions have
                been terminated).
            immed(3)  - deactivate immediately regardless of
                current activities on this Node. Wait for
                deactivation responses (from remote Node)
                before changing the Node state to inactive.
            force(4)  - deactivate immediately regardless of
                current activities on this Node. Do not wait
                for deactivation responses (from remote Node)
                before changing the Node state to inactive.

            Note that a write operation to
            snaNodeAdminOperStopMethod may immediately change
            the value of snaNodeOperStopMethod depending on
            the Agent implementation."
      ::= { snaNodeOperEntry 10 }

snaNodeOperState OBJECT-TYPE
      SYNTAX  INTEGER {
```

```
        inactive (1),
                active (2),
                waiting (3),
                stopping (4)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The current state of the Node.
                The values have the following meanings:
                 inactive (1), a row representing the Node has
                    been created in the AdminTable
                    and, the Node is ready for activation -or-
                    an active Node has been stopped -or-
                    a waiting Node has returned to the inactive
                    state.
                 waiting (3), a request to have the Node activated
                    has been issued, and the Node is pending
                    activation.
                 active (2), the Node is ready and operating.
                 stopping (4), the request to stop the Node has
                    been
 issued while the StopMethod normal
                    or immediate is used."
        ::= { snaNodeOperEntry 11 }

snaNodeOperHostSscpId OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(0..6))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This value identifies the current SSCP Id
                 associated with the Node. This object is only
                 applicable to PU 2.0s. If the Node
                 is not a PU 2.0 type, then this object contains a
                 zero length string."
        ::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The timestamp (e.g, the Agent's sysUpTime value)
                 at the Node activation."
        ::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE
```

```
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only

        STATUS  current
        DESCRIPTION
            "The timestamp (e.g., the Agent's sysUpTime value)
            at the last state change of the Node."
        ::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the number of failed Node
            activation attempts."
        ::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE
        SYNTAX  INTEGER {
            other (1),
            linkFailure (2),
            noResources (3),
            badConfiguration (4),
            internalError (5)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value indicates the reason for the activation
            failure.  The value 'other (1)' indicates a reason
            not
 listed in the enumeration. This object
            will be sent in the trap snaNodeActFailTrap."
        ::= { snaNodeOperEntry 16 }


-- ****************************************************************
-- The following object is updated when there is a change to
-- the value of snaNodeOperState in any row or a row is
-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.
-- ****************************************************************

snaNodeOperTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
```

```
            "The timestamp (e.g., the Agent's sysUpTime value)
            at the last change made to any object in the
            snaNodeOperTable, including row deletions/additions
            made as a result of changes to the
            snaNodeAdminRowStatus object.

            This object can be used to reduce frequent
            retrievals
 of the snaNodeOperTable by a Management
            Station. It is expected that a Management Station
            will periodically poll this object and compare its
            current value with the previous one. A difference
            indicates that some Node operational information
            has been changed. Only then will the Management
            Station retrieve the entire table."
        ::= { snaNode 4 }


-- ****************************************************************
-- The following table contains PU 2.0 statistics dynamic parameters.
-- ****************************************************************

snaPu20StatsTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaPu20StatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains the dynamic parameters which
            have read-only access. The entries in this table
            correspond
 to PU 2.0 entries in the snaNodeOperTable
            and cannot be created by a Management Station."
        ::= { snaNode 5 }

snaPu20StatsEntry OBJECT-TYPE
        SYNTAX  SnaPu20StatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "The entry contains parameters which describe the
            statistics for one PU 2.0. They have read-only
            access.
            The counters represent traffic for all kinds
            of sessions: LU-LU, SSCP-PU, SSCP-LU.

            Each Node of PU Type 2.0 from the snaNodeAdminTable
            has one entry in this table and the index used
            here has the same value as snaNodeAdminIndex of
```

```
            that PU.  The entry is created by the Agent."
        INDEX   { snaNodeAdminIndex }
        ::= { snaPu20StatsTable 1 }

SnaPu20StatsEntry ::= SEQUENCE {
        snaPu20StatsSentBytes
            Counter32,
         snaPu20StatsReceivedBytes
            Counter32,
        snaPu20StatsSentPius
            Counter32,
        snaPu20StatsReceivedPius
            Counter32,
        snaPu20StatsSentNegativeResps
            Counter32,
        snaPu20StatsReceivedNegativeResps
            Counter32,
        snaPu20StatsActLus
            Gauge32,
        snaPu20StatsInActLus
            Gauge32,
        snaPu20StatsBindLus
            Gauge32
        }

snaPu20StatsSentBytes OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of bytes sent by this Node."
        ::= { snaPu20StatsEntry 1 }

snaPu20StatsReceivedBytes OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of bytes received by this Node."
        ::= { snaPu20StatsEntry
 2 }

snaPu20StatsSentPius OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of PIUs sent by this Node."
```

```
        ::= { snaPu20StatsEntry 3 }

snaPu20StatsReceivedPius OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of PIUs received by this Node."
        ::= { snaPu20StatsEntry 4 }

snaPu20StatsSentNegativeResps OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of negative responses sent
                by this Node."
        ::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of negative responses received

       by this Node."
        ::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                received and responded to ACTLU from the host."
        ::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                not received an ACTLU from the host.  This is
                possible if the number of configured LUs exceeds
                that on the host."
        ::= { snaPu20StatsEntry 8 }
```

```
snaPu20StatsBindLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                received and acknowledged
 a BIND request from the
                host."
        ::= { snaPu20StatsEntry 9 }

-- ****************************************************************
-- The following table contains the association between Nodes and
-- link identifiers.
-- It is used for configuration purposes.
-- ****************************************************************

snaNodeLinkAdminTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaNodeLinkAdminEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "This table contains the references to link
                specific tables. If a Node is configured for
                multiple links, then the Node will have
                multiple entries in this table.
                The entries in this table can be generated
                initially, after initialization of SNA service,
                by the Agent which uses information from
                Node configuration file.

          Subsequent modifications of parameters,
                creation of new Nodes link entries and deletion
                of entries is possible.
                The modification to this table can be
                saved in the Node configuration file for the
                next initialization of SNA service, but the mechanism
                for this function is not defined here."
        ::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE
        SYNTAX  SnaNodeLinkAdminEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "Entry contains the configuration information that
                associates a Node instance to one link instance.
```

```
                The objects in the entry have read-create access.
                Entry can be created, modified or deleted.
                The object snaNodeLinkAdminRowStatus is used (set)
                to create or delete an entry.
                The object
 snaNodeLinkAdminSpecific can be set
                later, after the entry has been created."
        INDEX   { snaNodeAdminIndex,
                  snaNodeLinkAdminIndex }
        ::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {
        snaNodeLinkAdminIndex
                Integer32,
        snaNodeLinkAdminSpecific
                InstancePointer,
        snaNodeLinkAdminMaxPiu
                Integer32,
        snaNodeLinkAdminRowStatus
                RowStatus
        }

snaNodeLinkAdminIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "This value is used to index the instances of objects.
                If an Agent creates the entry, then it will assign
                this number otherwise a Management Station
                generates a random number when it reserves the
                entry for creation."
        ::=
 { snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE
        SYNTAX  InstancePointer
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
                "This value points to the row in the table
                containing information on the link instance.
                (e.g., the sdlcLSAdminTable of
                the SNA DLC MIB module)."
        ::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE
        SYNTAX  Integer32
```

```
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
              "This value identifies the maximum number of octets
              that can be exchanged by this Node in one
              Path Information Unit (PIU)."
        ::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This object is used by a
 Management Station to
              create or delete the row entry in the
              snaNodeLinkAdminTable.
              To activate a row, a Management Station sets the value
              to 'active (1)' or 'notReady (3)'.  Upon successful
              creation of the row, the Agent automatically creates
              a corresponding entry in the snaNodeLinkOperTable.

              Row deletion can be Management Station or Agent
              initiated:
              (a) The Management Station can set the value to
              'destroy (6)' only when the value of
              snaNodeLinkOperState of this Link
              instance is 'inactive (1)'. The Agent will then
              delete the row corresponding to this Link
              instance from snaNodeLinkOperTable and
              from snaNodeLinkAdminTable.
              (b) The Agent detects that a row is in the
              'notReady (3)' state for greater than a

   default period of 5 minutes.
              (c) The Agent will not include a row with RowStatus=
              'notReady (3)', after SNA system re-initialization
               (e.g., reboot)."
        ::= { snaNodeLinkAdminEntry 4 }


-- ****************************************************************
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeLinkAdminTable.
-- ****************************************************************

snaNodeLinkAdminTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
```

```
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The timestamp (e.g., the Agent's sysUpTime value)
            at the last
            change made to any object in the snaNodeLinkAdminTable,
            including row deletions/additions (i.e., changes
            to the snaNodeLinkAdminRowStatus object).

            This object can be used to reduce
 frequent
            retrievals of the snaNodeLinkAdminTable by a
            Management Station. It is expected that a
            Management Station will periodically poll this
            object and compare its current value with the
            previous one.
            A difference indicates that some Node operational
            information has been changed. Only then will the
            Management Station retrieve the entire table."
        ::= { snaNode 7 }


-- ****************************************************************
-- The following table contains the association between
-- Nodes and link identifiers.
-- It provides the current status.
-- ****************************************************************

snaNodeLinkOperTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaNodeLinkOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains all references
 to link
            specific tables for operational parameters.
            If a Node is configured for multiple links,
            then the Node will have multiple entries in
            this table. This table augments the
            snaNodeLinkAdminTable."
        ::= { snaNode 8 }

snaNodeLinkOperEntry OBJECT-TYPE
        SYNTAX  SnaNodeLinkOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Entry contains all current parameters for one
```

```
            Node link. The objects in the entry have
            read-only access."
        AUGMENTS   { snaNodeLinkAdminEntry }
        ::= { snaNodeLinkOperTable 1 }

SnaNodeLinkOperEntry ::= SEQUENCE {
        snaNodeLinkOperSpecific
            InstancePointer,
        snaNodeLinkOperMaxPiu
            Integer32
        }

snaNodeLinkOperSpecific OBJECT-TYPE
        SYNTAX  InstancePointer
        MAX-ACCESS
  read-only
        STATUS  current
        DESCRIPTION
            "This value points to the row in the table
            containing information on the link instance.
            (e.g., the sdlcLSOperTable of
            the SNA DLC MIB module)."
        ::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "Maximum number of octets that can
            be exchanged by this Node in one Path
            Information Unit (PIU)."
        ::= { snaNodeLinkOperEntry 2 }


-- ****************************************************************
-- The following object is updated when a row is added/deleted
-- from the snaNodeLinkOperTable.
-- ****************************************************************

snaNodeLinkOperTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only

 STATUS  current
        DESCRIPTION
            "The timestamp of the last
            change made to any object in the snaNodeLinkOperTable,
```

```
            including row deletions/additions.

            This object can be used to reduce frequent
            retrievals of the snaNodeLinkOperTable by a
            Management Station. It is expected that a
            Management Station will periodically poll this
            object and compare its current value with the
            previous one.
            A difference indicates that some Node operational
            information has been changed. Only then will the
            Management Station retrieve the entire table."
        ::= { snaNode 9 }

-- ****************************************************************
-- Traps
-- ****************************************************************

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap
 NOTIFICATION-TYPE
        OBJECTS  { snaNodeOperName,
              snaNodeOperState }
        STATUS  current
        DESCRIPTION
              "This trap indicates that the operational state
              (i.e., value of the snaNodeOperState object) of a Node
               has changed. The following variables are returned:
                snaNodeOperName - current name of the Node,
                  with the instance identifying the Node; and,
                snaNodeOperState - current state after
                  the change."
        ::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE
        OBJECTS  { snaNodeOperName,
              snaNodeOperState,
              snaNodeOperActFailureReason }
        STATUS  current
        DESCRIPTION
              "This trap indicates a Node activation failure.
              The value of snaNodeOperState indicates the current
              state after the activation attempt.
               The value of snaNodeOperActFailureReason indicates
              the failure reason."
        ::=  { snaNodeTraps 2 }
```

```
-- ****************************************************************
-- snaLu group
--
-- It contains Managed Objects related to LUs in general and some
-- specific for LUs of type 0, 1, 2, 3.
-- ****************************************************************


-- ****************************************************************
-- The following table contains LU configuration parameters.
-- ****************************************************************

snaLuAdminTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF SnaLuAdminEntry
    MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION
        "This table contains LU configuration information.
        The rows in this table can be created and deleted
        by a Management Station.
        Only objects which are common to all types of LUs

        are included in this table."
    ::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE
    SYNTAX  SnaLuAdminEntry
    MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION
        "Contains configuration variables for an LU."
    INDEX   { snaNodeAdminIndex, snaLuAdminLuIndex }
    ::= { snaLuAdminTable 1 }

SnaLuAdminEntry ::= SEQUENCE {
    snaLuAdminLuIndex
        Integer32,
    snaLuAdminName
        DisplayString,
    snaLuAdminSnaName
        DisplayString,
    snaLuAdminType
        INTEGER,
    snaLuAdminDepType
        INTEGER,
    snaLuAdminLocalAddress
        OCTET STRING,
    snaLuAdminDisplayModel
```

```
            INTEGER,
        snaLuAdminTerm
            INTEGER,
        snaLuAdminRowStatus
            RowStatus
        }

snaLuAdminLuIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
         DESCRIPTION
            "This value identifies the unique index for an
             LU instance within a Node."
        ::= { snaLuAdminEntry 1 }

snaLuAdminName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..48))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies the user configurable
            name for this LU. If a name is not assigned to the LU,
            then this object contains a zero length string.

            A write operation to this object will
            not change the operational value reflected
            in snaLuOperName until the Node has
            been re-activated (e.g., after the next
            initialization of the SNA services)."
        ::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(1..17))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies
 the SNA LU name
            used in exchange of SNA data.

            A write operation to this object will
            not change the operational value reflected
            in snaLuOperSnaName until the Node has
            been re-activated (e.g., after the next
            initialization of the SNA services)."
        ::= { snaLuAdminEntry 3 }
```

```
snaLuAdminType OBJECT-TYPE
    SYNTAX  INTEGER {
        other(1),
        lu0(2),
        lu1(3),
        lu2(4),
        lu3(5),
        lu4(6),
        lu62(7),
        lu7(8)
        }
    MAX-ACCESS  read-create
    STATUS  current
    DESCRIPTION
        "This value identifies the LU type.

        A write operation to this object will
        not change the operational value reflected
        in snaLuOperAdminType until the Node has
        been re-activated (e.g., after the next
         initialization of the SNA services)."
    ::= { snaLuAdminEntry 4 }

snaLuAdminDepType OBJECT-TYPE
    SYNTAX  INTEGER {
        dependent(1),
        independent(2)
        }
    MAX-ACCESS  read-create
    STATUS  current
    DESCRIPTION
        "This value identifies whether the LU is
        dependent or independent.

        A write operation to this object will
        not change the operational value reflected
        in snaLuOperDepType until the Node has
        been re-activated (e.g., after the next
        initialization of the SNA services)."
    ::= { snaLuAdminEntry 5 }

snaLuAdminLocalAddress OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(1))
    MAX-ACCESS  read-create
    STATUS  current
    DESCRIPTION
        "The local address for this LU is a byte with a value
        ranging from 0 to 254.For dependent LUs, this value
```

ranges from 1 to 254 and for independent LUs this
value is always 0.

A write operation to this object will not change the
operational value reflected in snaLuOperLocalAddress
until the Node has been re-activated (e.g., after the
next initialization of the SNA services)."
::= { snaLuAdminEntry 6 }

snaLuAdminDisplayModel OBJECT-TYPE
SYNTAX INTEGER {
invalid(1),
model2A(2),
model2B(3),
model3A(4),
model3B(5),
model4A(6),
model4B(7),
model5A(8),
model5B(9),
dynamic(10)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The value of this object identifies the model type
and screen size of the terminal connected to the host.
This
is only valid for LU Type 2. The values have
the following meaning:

model2A(2) - Model 2 (24 rows x 80 cols) with base
attributes
model2B(3) - Model 2 (24 rows x 80 cols) with
extended attributes
model3A(4) - Model 3 (32 rows x 80 cols) with base
attributes
model3B(5) - Model 3 (32 rows x 80 cols) with extended
attributes
model4A(6) - Model 4 (43 rows x 80 cols) with base
attributes
model4B(7) - Model 4 (43 rows x 80 cols) with extended
attributes
model5A(8) - Model 5 (27 rows x 132 cols) with base
attributes
model5B(9) - Model 5 (27 rows x 132 cols) with
extended attributes
dynamic(10) - Screen size determine with

In case this LU is not Type 2, then this object
should contain the invalid(1) value."
::= { snaLuAdminEntry 7 }

snaLuAdminTerm OBJECT-TYPE
SYNTAX INTEGER {
unbind (1),
termself (2),
rshutd (3),
poweroff (4)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This value identifies the desired method for
deactivation of this LU. This value overrides the
default method (snaNodeOperLuTermDefault) for this
Node. For LU 6.2, only the value 'unbind (1)'
applies.

unbind(1) - terminate the LU-LU session by sending
an SNA UNBIND request.
termself(2) - terminate the LU-LU session by sending
an SNA TERM-SELF
(Terminate Self) request on
the SSCP-LU session. The SSCP will inform the
remote session LU partner to send an UNBIND
request to terminate the session.
rshutd(3) - terminate the LU-LU session by sending
an SNA RSHUTD (Request ShutDown) request to
the remote session LU partner. The remote LU
will then send an UNBIND request to terminate
the session.
poweroff(4) - terminate the LU-LU session by sending
either an SNA LUSTAT (LU Status) request on
the LU-LU session or an SNA NOTIFY request on
the SSCP-LU session indicating that the LU has
been powered off. Sending both is also
acceptable. The result should be that the
remote session LU partner
will send an UNBIND
to terminate the session.

A write operation to this object may immediately
change the operational value reflected

```
            in snaLuOperTerm depending
            on the Agent implementation."
        ::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This object is used by a Management Station to
            create or delete the row entry in the
            snaLuAdminTable.
            To activate a row, the Management Station sets the
            value to 'active (1)' or 'notReady (3)'.
            Upon successful creation of the row, the Agent
            automatically creates a corresponding entry in the
            snaLuOperTable with snaLuOperState equal to
            'inactive (1)'.
            Row deletion can be Management Station
 or Agent
            initiated:
            (a) The Management Station can set the value to
            'destroy (6)' only when the value of snaLuOperState
            of this LU instance is 'inactive (1)'. The Agent will
            then delete the row corresponding to this LU
            instance from snaLuAdminTable and
            from snaLuOperTable.
            (b) The Agent detects that a row is in the
            'notReady (3)' state for greater than a
            default period of 5 minutes.
            (c) The Agent will not create a row with RowStatus
            equal to 'notReady (3)', after SNA system
            re-initialization (e.g., reboot)."
        ::= { snaLuAdminEntry 9 }


-- ****************************************************************
-- The following table contains LU state dynamic parameters.
-- ****************************************************************

snaLuOperTable OBJECT-TYPE
        SYNTAX
  SEQUENCE OF SnaLuOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains dynamic runtime information and
            control variables relating to LUs.
```

```
            Only objects which are common to all types of LUs are
            included in this table. This table augments the
            snaLuAdminTable."
        ::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE
        SYNTAX  SnaLuOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains objects reflecting current information
            for an LU.
            Each entry is created by the Agent.  All entries
            have read-only access."
        AUGMENTS        { snaLuAdminEntry }
        ::= { snaLuOperTable 1 }

SnaLuOperEntry ::= SEQUENCE {
        snaLuOperName
            DisplayString,
        snaLuOperSnaName
            DisplayString,
        snaLuOperType

          INTEGER,
        snaLuOperDepType
            INTEGER,
        snaLuOperLocalAddress
            OCTET STRING,
        snaLuOperDisplayModel
            INTEGER,
        snaLuOperTerm
            INTEGER,
        snaLuOperState
            INTEGER,
        snaLuOperSessnCount
            Gauge32
        }

snaLuOperName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..48))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "User configurable name for this LU. If a name
            is not assigned, then this object contains a
            zero length string."
        ::= { snaLuOperEntry 1 }
```

```
snaLuOperSnaName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(1..17))
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies the current SNA LU name."
    ::= { snaLuOperEntry 2 }

snaLuOperType OBJECT-TYPE
    SYNTAX  INTEGER {
        other(1),
         lu0(2),
        lu1(3),
        lu2(4),
        lu3(5),
        lu4(6),
        lu62(7),
        lu7(8)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies the current LU type."
    ::= { snaLuOperEntry 3 }

snaLuOperDepType OBJECT-TYPE
    SYNTAX  INTEGER {
        dependent(1),
        independent(2)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies whether the LU is currently
         dependent or independent.

        A write operation to this object will
        not change the operational value reflected
        in snaLuOperDepType until the Node has
        been re-activated (e.g., after the next
        initialization of the SNA services)."
    ::= { snaLuOperEntry 4 }

snaLuOperLocalAddress
 OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(1))
    MAX-ACCESS  read-only
```

```
        STATUS  current
        DESCRIPTION
                "The local address for this LU is a byte with a value
                ranging from 0 to 254. For dependent LUs, this value
                ranges from 1 to 254; for independent LUs this value
                is always 0.

                A write operation to this object will
                not change the operational value reflected
                in snaLuOperLocalAddress until the Node has
                been re-activated (e.g., after the next
                initialization of the SNA services)."
        ::= { snaLuOperEntry 5 }

snaLuOperDisplayModel OBJECT-TYPE
        SYNTAX  INTEGER {
                invalid(1),
                model2A(2),
                model2B(3),
                model3A(4),
                model3B(5),
                model4A(6),
                model4B(7),
                model5A(8),
                model5B(9),
                 dynamic(10)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The screen model type of the terminal connected to
                the host. If this LU is not Type 2, then this
                object should contain the 'invalid(1)' value."
        ::= { snaLuOperEntry 6 }

snaLuOperTerm OBJECT-TYPE
        SYNTAX  INTEGER {
                unbind (1),
                termself (2),
                rshutd (3),
                poweroff (4)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the current method for
                deactivation of this LU. This value overrides the
                default method (snaNodeOperLuTermDefault) for this
```

Node. For LU 6.2, only the value 'unbind (1)' applies.

unbind(1) - terminate the LU-LU session by sending an SNA UNBIND request.

termself(2) - terminate the LU-LU session by sending an SNA TERM-SELF (Terminate Self) request on the SSCP-LU session. The SSCP will inform the remote session LU partner to send an UNBIND request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending an SNA RSHUTD (Request ShutDown) request to the remote session LU partner. The remote LU will then send an UNBIND request to terminate the session.

poweroff(4) - terminate the LU-LU session by sending either an SNA LUSTAT (LU Status) request on the LU-LU session or an SNA NOTIFY request on the SSCP-LU session indicating that the LU has been powered off. Sending both is also

acceptable. The result should be that the remote session LU partner will send an UNBIND to terminate the session."

::= { snaLuOperEntry 7 }

snaLuOperState OBJECT-TYPE
SYNTAX INTEGER {
inactive (1),
active (2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value identifies the current operational state of this LU.
It has different meanings for dependent and independent LUs.
For dependent LUs the values indicate the following:
inactive (1) - LU didn't receive ACTLU, or it received DACTLU, or received ACTLU and sent negative response.
active (2) - LU received ACTLU and acknowledged positively.

For independent LUs the values indicate the following:
active (2) - the LU is defined and is able to send

```
                and receive BIND.
            inactive (1) - the LU has a session count equal
                to 0."
    ::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE
    SYNTAX  Gauge32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of currently active LU-LU sessions of
        this LU.
        For the independent LU, if this object has value 0,
        it indicates that LU is inactive."
    ::= { snaLuOperEntry 9 }


-- ****************************************************************
-- The following table contains LU session status parameters.
-- ****************************************************************

snaLuSessnTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF SnaLuSessnEntry
    MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION

    "This is a table containing objects which describe the
        operational state of LU sessions.  Only objects which
        are common to all types of LU sessions are included
        in this table.

        When a session's snaLuSessnOperState value changes to
        'pendingBind (2)', then the corresponding entry
        in the session table is created by the Agent.

        When the session's snaLuSessnOperState value changes to
         'unbound (1)',  then the session will be removed from
        the session table by the Agent."
    ::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE
    SYNTAX  SnaLuSessnEntry
    MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION
        "An entry contains dynamic parameters for an LU-LU
        session.
```

```
            The indices identify the Node, local LU, and remote LU
            for this session."
        INDEX   { snaNodeAdminIndex,
                  snaLuAdminLuIndex,
                  snaLuSessnRluIndex,
                  snaLuSessnIndex }
        ::= { snaLuSessnTable 1 }

SnaLuSessnEntry ::= SEQUENCE {
        snaLuSessnRluIndex
            Integer32,
        snaLuSessnIndex
            Integer32,
        snaLuSessnLocalApplName
            DisplayString,
        snaLuSessnRemoteLuName
            DisplayString,
        snaLuSessnMaxSndRuSize
            INTEGER,
        snaLuSessnMaxRcvRuSize
            INTEGER,
        snaLuSessnSndPacingSize
            INTEGER,
        snaLuSessnRcvPacingSize
            INTEGER,
        snaLuSessnActiveTime
            TimeStamp,
        snaLuSessnAdminState
            INTEGER,
        snaLuSessnOperState
            INTEGER,
        snaLuSessnSenseData
            OCTET STRING,
        snaLuSessnTerminationRu
            INTEGER,
        snaLuSessnUnbindType
            OCTET STRING,
        snaLuSessnLinkIndex
             Integer32
        }

snaLuSessnRluIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value may be used to identify information about
            the session partner LU in a table of information about
```

```
            remote LUs.  Such a table is not defined in this
            document.  If a table of remote LU information is not
            implemented, or if the table is implemented but it does
            not contain information about the partner LU for a
            particular session (as for dependent LU-LU sessions)
            then this object will have a value of zero."
        ::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the unique index of the session.
            It is recommended
 that an Agent should not reuse the
            index of a deactivated session for a significant
            period of time (e.g., one week)."
        ::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..48))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The name of the local application using this LU.
            If the local application is unknown, then this object
            contains a zero length string."
        ::= { snaLuSessnEntry 3 }

snaLuSessnRemoteLuName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..17))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "For dependent LUs which are indicated by the
            snaLuOperDepType object containing the value
            'dependent (1)', this object contains the Primary
            LU (PLU) name.  For independent LUs,
            this object contains the fully-qualified
 remote LU
            name of this 6.2 session.
            A fully qualified name is an SNA NAU entity name
            preceded by the NetId and a period as the delimiter."
        ::= { snaLuSessnEntry 4 }

snaLuSessnMaxSndRuSize OBJECT-TYPE
        SYNTAX  INTEGER (1..8192)
```

```
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The maximum RU size used on this session for sending
                RUs."
        ::= { snaLuSessnEntry 5 }

    snaLuSessnMaxRcvRuSize OBJECT-TYPE
        SYNTAX  INTEGER (1..8192)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The maximum RU size used on this session for
                receiving RUs."
        ::= { snaLuSessnEntry 6 }

    snaLuSessnSndPacingSize OBJECT-TYPE
        SYNTAX  INTEGER (1..63)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The size of the send pacing window on this session."
        ::= {
     snaLuSessnEntry 7 }

    snaLuSessnRcvPacingSize OBJECT-TYPE
        SYNTAX  INTEGER (1..63)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The size of the receive pacing window on this
                session."
        ::= { snaLuSessnEntry 8 }

    snaLuSessnActiveTime OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The timestamp (e.g., the Agent's sysUpTime value)
                when this session becomes active."
        ::= { snaLuSessnEntry 9 }

    snaLuSessnAdminState OBJECT-TYPE
        SYNTAX  INTEGER {
                unbound (1),
                bound (3)
                }
```

```
    MAX-ACCESS  read-write
    STATUS  current
    DESCRIPTION
        "The value indicates the desired operational state of
        the session. This object is used to
        change the operational state of the session.
        A Management Station
can only change the operational
        state of the session to 'unbound (1)'.

        Session deactivation:
          If a session is in the operational state
          'bound (3)' then setting the value of this
          object to 'unbound (1)' will initiate the
          session shutdown.

          If a session is in the operational state
          'pendingBind (2)' then setting the value of this
          object to 'unbound (1)' will initiate the session
          shutdown.
          If a session is in the operational state
          'pendingUnbind (4)' for an abnormally long period
          of time (e.g., three minutes) then setting the value
          of this object to 'unbound (1)' will change the
          session operational state to 'unbound (1)'.

        Note: for dependent LUs, deactivating the session is
        the same as deactivating
the LU."
    ::= { snaLuSessnEntry 10 }

snaLuSessnOperState OBJECT-TYPE
    SYNTAX  INTEGER {
        unbound (1),
        pendingBind (2),
        bound (3),
        pendingUnbind (4)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value indicates the current operational state of
        the session.

          'unbound (1)' - session has been  unbound;
              in this state it will be removed from the
              session table by the Agent.
```

'pendingBind (2)' - this state has different
meanings for dependent and independent LUs;
for dependent LU - waiting for BIND from
the host, for independent LU - waiting for
BIND response. When a session enters this
state, the corresponding entry in the

session table is created by the Agent.

'bound (3)' - session has been successfully bound.

'pendingUnbind (4)' - session enters this state
when an UNBIND is sent and before the
rsp(UNBIND) is received."
::= { snaLuSessnEntry 11 }

snaLuSessnSenseData OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..8))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value identifies the sense code when there is
a BIND failure. It is taken from the negative BIND
response or UNBIND request.
This is displayed as 8 hexadecimal digits."
::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE
SYNTAX INTEGER {
other (1),
bindFailure (2),
unbind (3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value identifies the SNA RU that terminated the
session.
If the session is not in the unbound state, this object
has a value of 'other (1)'."
::= { snaLuSessnEntry 13 }

snaLuSessnUnbindType OBJECT-TYPE
SYNTAX OCTET STRING (SIZE(0..1))
MAX-ACCESS read-only
STATUS current
DESCRIPTION

```
            "If the session is in the unbound state, and it was
            terminated by an UNBIND, then this object contains
            the UNBIND type value (byte 1 of the UNBIND RU);
            otherwise the string is null."
        ::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the link over which the session
            passes.  It is an index into snaNodeLinkAdminTable.
            If the index value is not known,
 the value of this
            object shall be zero."
        ::= { snaLuSessnEntry 15 }


-- ****************************************************************
-- The following table contains LU sessions statistics dynamic
-- parameters.
-- ****************************************************************

snaLuSessnStatsTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaLuSessnStatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains dynamic statistics information
            relating to LU sessions.
            The entries in this table augment the entries in
            the snaLuSessnTable and cannot be created by
            a Management Station."
        ::= { snaLu 4 }

snaLuSessnStatsEntry OBJECT-TYPE
        SYNTAX  SnaLuSessnStatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains statistics information for an LU session.

     Each entry is created by the Agent.
            Objects in this table have read-only access.
            Each session from snaLuSessnTable
            has one entry in this table."
        AUGMENTS   { snaLuSessnEntry }
```

```
    ::= { snaLuSessnStatsTable 1 }

SnaLuSessnStatsEntry ::= SEQUENCE {
    snaLuSessnStatsSentBytes
        Counter32,
    snaLuSessnStatsReceivedBytes
        Counter32,
    snaLuSessnStatsSentRus
        Counter32,
    snaLuSessnStatsReceivedRus
        Counter32,
    snaLuSessnStatsSentNegativeResps
        Counter32,
    snaLuSessnStatsReceivedNegativeResps
        Counter32
    }

snaLuSessnStatsSentBytes OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of bytes sent by the local LU."
    ::= { snaLuSessnStatsEntry 1 }

snaLuSessnStatsReceivedBytes OBJECT-TYPE
    SYNTAX
 Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of bytes received by the local LU."
    ::= { snaLuSessnStatsEntry 2 }

snaLuSessnStatsSentRus OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of RUs sent by the local LU."
    ::= { snaLuSessnStatsEntry 3 }

snaLuSessnStatsReceivedRus OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of RUs received by the local LU."
```

```
    ::= { snaLuSessnStatsEntry 4 }

snaLuSessnStatsSentNegativeResps OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of negative responses sent by the
        local LU."
    ::= { snaLuSessnStatsEntry 5 }

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE
    SYNTAX
 Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of negative responses received by the
        local LU."
    ::= { snaLuSessnStatsEntry 6 }


-- ****************************************************************
-- Traps
-- ****************************************************************

snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE
    OBJECTS  {  snaLuOperName,
         snaLuOperSnaName,
        snaLuOperState }
    STATUS  current
    DESCRIPTION
        "This trap indicates that the operational state
        (i.e., snaLuOperState value) of the LU has changed.
        The value of snaLuOperName indicates the name of the
        LU.
        The value of snaLuOperSnaName indicates the SNA name
        of LU.
        The value of snaLuOperState indicates the current
        state after
 change."
    ::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE
    OBJECTS  { snaLuSessnLocalApplName,
        snaLuSessnRemoteLuName,
```

```
            snaLuSessnOperState,
            snaLuSessnSenseData }
        STATUS  current
        DESCRIPTION
            "This trap indicates the failure of a BIND.
            The value of snaLuSessnLocalApplName indicates the local
            application name.
            The value of snaLuSessnPartnerName indicates the partner
            name.
            The value of snaLuSessnOperState indicates the current
            state after change.
            The value of snaLuSessnBindFailureReason
            indicates the failure reason.
            The Agent should not generate more than 1 trap of this
            type per minute to minimize the level of management
            traffic on the network."
        ::= { snaLuTraps 2 }

-- ****************************************************************
--
 snaMgtTools group
--
-- Currently this group contains only one table.
-- ****************************************************************


-- ****************************************************************
-- The following table contains Response Time Monitoring (RTM)
-- configuration information and statistics for LU Type 2s.
-- RTM supports the capability to measure and report end-user
-- response times for dependent LUs. When the RTM state of an LU
-- is 'on', response times for each LU transaction are monitored.
-- A set of ranges is defined (e.g., Range 1 includes the number of
-- transactions with response times less than 1 second) using the
-- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).
-- A set of counters (one per range) identifies
-- the number of transactions within each response time range.
-- ****************************************************************

snaLuRtmTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaLuRtmEntry
         MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains Response Time Monitoring (RTM)
            information relating to an LU (Type 2). Each entry
            corresponds to an LU 2 entry in
            snaLuAdminTable."
```

```
        ::= { snaMgtTools 1 }

    snaLuRtmEntry OBJECT-TYPE
        SYNTAX  SnaLuRtmEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains RTM information for an LU (Type 2).
            Each entry is created by the Agent."
        INDEX   { snaLuRtmPuIndex, snaLuRtmLuIndex }
        ::= { snaLuRtmTable 1 }

    SnaLuRtmEntry ::= SEQUENCE {
        snaLuRtmPuIndex
            Integer32,
        snaLuRtmLuIndex
            Integer32,
        snaLuRtmState
            INTEGER,
        snaLuRtmStateTime
            TimeStamp,
        snaLuRtmDef
            INTEGER,
        snaLuRtmBoundary1
            Integer32,
         snaLuRtmBoundary2
            Integer32,
        snaLuRtmBoundary3
            Integer32,
        snaLuRtmBoundary4
            Integer32,
        snaLuRtmCounter1
            Counter32,
        snaLuRtmCounter2
            Counter32,
        snaLuRtmCounter3
            Counter32,
        snaLuRtmCounter4
            Counter32,
        snaLuRtmOverFlows
            Counter32,
        snaLuRtmObjPercent
            Integer32,
        snaLuRtmObjRange
            INTEGER,
        snaLuRtmNumTrans
            Integer32,
        snaLuRtmLastRspTime
```

```
            Integer32,
        snaLuRtmAvgRspTime
            Integer32
        }

snaLuRtmPuIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS not-accessible
        STATUS  current
        DESCRIPTION
            "The value identifies the PU 2.0 with which this LU is
            associated."
        ::= { snaLuRtmEntry 1 }

snaLuRtmLuIndex OBJECT-TYPE
        SYNTAX
     Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "The value uniquely identifies an LU in a PU 2.0."
        ::= { snaLuRtmEntry 2 }

snaLuRtmState OBJECT-TYPE
        SYNTAX  INTEGER {
            off(1),
            on(2)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value indicates the current RTM state of an LU."
        ::= { snaLuRtmEntry 3 }

snaLuRtmStateTime  OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The timestamp (e.g., the Agent's sysUpTime value)
            when this session's RTM state (e.g., snaLuRtmState)
            changes value."
        ::= { snaLuRtmEntry 4 }

snaLuRtmDef OBJECT-TYPE
        SYNTAX  INTEGER {
            firstChar(1),
            kb(2),
```

```
            cdeb(3)
            }
        MAX-ACCESS  read-only

      STATUS  current
        DESCRIPTION
            "The value indicates the mode of measurement for this
            RTM request.  The values have following meaning:
              firstChar(1) - time to first character on screen
              kb(2) - time to keyboard usable by operator
              cdeb(3) - time to Change Direction/End Bracket."
        ::= { snaLuRtmEntry 5 }

snaLuRtmBoundary1 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This object contains the value of the first boundary
            in units of 1/10th of a second."
        ::= { snaLuRtmEntry 6 }

snaLuRtmBoundary2 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This object contains the value of the second boundary
             in units of 1/10th of a second."
        ::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE
         SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This object contains the value of the third boundary
             in units of 1/10th of a second."
        ::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This object contains the value of the fourth boundary
            in units of 1/10th of a second."
        ::= { snaLuRtmEntry 9 }
```

```
snaLuRtmCounter1 OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the number of transactions which
        fall in the range specified by the first boundary."
    ::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates
 the number of transactions which
        fall in the range specified by the second boundary."
    ::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the number of transactions which
        fall in the range specified by the third boundary."
    ::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the number of transactions which
        fall in the range specified by the fourth boundary."
    ::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the number of transactions which
        exceed the highest range specified by
 the
        boundaries."
    ::= { snaLuRtmEntry 14 }
```

```
snaLuRtmObjPercent OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the desired percentage of
        transactions which should be under a designated
        boundary range indicated by snaLuRtmObjRange."
    ::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE
     SYNTAX  INTEGER {
        other(1),
        range1(2),
        range2(3),
        range3(4),
        range4(5),
        range5(6)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the designated boundary range to
        which the snaLuRtmObject refers.
        The values have the following meanings:
          other(1)   - not specified
          range1(2)  - less than boundary
1
          range2(3)  - between boundary 1 and 2
          range3(4)  - between boundary 2 and 3
          range4(5)  - between boundary 3 and 4
          range5(6)  - greater than boundary 4."
    ::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value indicates the total number of transactions
        executed since the RTM monitoring began (i.e.,
        snaLuRtmState changed to 'on(2)') for this LU."
    ::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
```

```
        STATUS  current
        DESCRIPTION
                "This value indicates the response time for the last
                transaction in units of 1/10th of a second."
        ::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
         STATUS  current
        DESCRIPTION
                "This value indicates the average response time for all
                transactions in units of 1/10th of a second."
        ::= { snaLuRtmEntry 19 }


-- ****************************************************************
-- Conformance information
-- ****************************************************************

snanauConformance       OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances       OBJECT IDENTIFIER ::= {snanauConformance 1 }
snanauGroups            OBJECT IDENTIFIER ::= {snanauConformance 2 }

-- Compliance statements
snanauCompliance  MODULE-COMPLIANCE
        STATUS  current
        DESCRIPTION
                "The compliance statement for the SNMPv2 entities
                which implement the snanau MIB."
        MODULE  -- this module

--      Unconditionally mandatory groups
                MANDATORY-GROUPS  { snaNodeGroup,
                        snaLuGroup,
                        snaSessionGroup
 }

--      Conditionally mandatory groups
                GROUP  snaPu20Group
                DESCRIPTION
                        "The snaPu20Group is mandatory only for those
                        entities which implement PU type 2.0"
                GROUP  snaMgtToolsRtmGroup
                DESCRIPTION
                        "The snaMgtToolsGroup is mandatory only for
                        those entities which implement LU type 2
```

```
                and RTM."

--      Refinement of requirements for objects access.
--      The Agent which does not implement row creation for
--      snaNodeAdminTable, snaNodeLinkAdminTable and
--      snaLuAdminTable must at least accept
--      objects modification (read-write access instead of
--      read-create).

            OBJECT  snaNodeAdminName
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

             OBJECT  snaNodeAdminType
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaNodeAdminXidFormat
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaNodeAdminBlockNum
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaNodeAdminIdNum
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaNodeAdminEnablingMethod
            MIN-ACCESS  read-write
             DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaNodeAdminLuTermDefault
            MIN-ACCESS  read-write
            DESCRIPTION
```

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminMaxLu
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminHostDescription
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminStopMethod
MIN-ACCESS read-write
DESCRIPTION
"An
Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminState
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeLinkAdminSpecific
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeLinkAdminMaxPiu
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."
OBJECT snaLuAdminName
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this
object."

OBJECT snaLuAdminSnaName
MIN-ACCESS read-write

```
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaLuAdminType
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaLuAdminDepType
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaLuAdminLocalAddress
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaLuAdminDisplayModel
            MIN-ACCESS
 read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

            OBJECT  snaLuAdminTerm
            MIN-ACCESS  read-write
            DESCRIPTION
                "An Agent is required to implement read-write
                access to this object."

        ::= {snanauCompliances 1 }


-- Units of conformance

snaNodeGroup  OBJECT-GROUP
        OBJECTS  { snaNodeAdminName,
            snaNodeAdminType,
            snaNodeAdminXidFormat,
            snaNodeAdminBlockNum,
            snaNodeAdminIdNum,
            snaNodeAdminEnablingMethod,
            snaNodeAdminLuTermDefault,
```

```
            snaNodeAdminMaxLu,
            snaNodeAdminHostDescription,
            snaNodeAdminStopMethod,
            snaNodeAdminState,
            snaNodeAdminRowStatus,
            snaNodeAdminTableLastChange,
            snaNodeOperName,
             snaNodeOperType,
            snaNodeOperXidFormat,
            snaNodeOperBlockNum,
            snaNodeOperIdNum,
            snaNodeOperEnablingMethod,
            snaNodeOperLuTermDefault,
            snaNodeOperMaxLu,
            snaNodeOperHostDescription,
            snaNodeOperStopMethod,
            snaNodeOperState,
            snaNodeOperHostSscpId,
            snaNodeOperStartTime,
            snaNodeOperLastStateChange,
            snaNodeOperActFailures,
            snaNodeOperActFailureReason,
            snaNodeOperTableLastChange,
            snaNodeLinkAdminSpecific,
            snaNodeLinkAdminMaxPiu,
            snaNodeLinkAdminRowStatus,
            snaNodeLinkAdminTableLastChange,
            snaNodeLinkOperSpecific,
            snaNodeLinkOperMaxPiu,
            snaNodeLinkOperTableLastChange }
        STATUS  current
        DESCRIPTION

        "A collection of objects providing the
             instrumentation of SNA nodes."
        ::= { snanauGroups 1 }

    snaLuGroup  OBJECT-GROUP
        OBJECTS  { snaLuAdminName,
            snaLuAdminSnaName,
            snaLuAdminType,
            snaLuAdminDepType,
            snaLuAdminLocalAddress,
            snaLuAdminDisplayModel,
            snaLuAdminTerm,
            snaLuAdminRowStatus,
            snaLuOperName,
            snaLuOperSnaName,
```

```
            snaLuOperType,
            snaLuOperDepType,
            snaLuOperLocalAddress,
            snaLuOperDisplayModel,
            snaLuOperTerm,
            snaLuOperState,
            snaLuOperSessnCount }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of SNA LUs."
        ::= { snanauGroups 2 }

snaSessionGroup  OBJECT-GROUP
        OBJECTS  { snaLuSessnRluIndex,

        snaLuSessnIndex,
            snaLuSessnLocalApplName,
            snaLuSessnRemoteLuName,
            snaLuSessnMaxSndRuSize,
            snaLuSessnMaxRcvRuSize,
            snaLuSessnSndPacingSize,
            snaLuSessnRcvPacingSize,
            snaLuSessnActiveTime,
            snaLuSessnAdminState,
            snaLuSessnOperState,
            snaLuSessnSenseData,
            snaLuSessnTerminationRu,
            snaLuSessnUnbindType,
            snaLuSessnLinkIndex,
            snaLuSessnStatsSentBytes,
            snaLuSessnStatsReceivedBytes,
            snaLuSessnStatsSentRus,
            snaLuSessnStatsReceivedRus,
            snaLuSessnStatsSentNegativeResps,
            snaLuSessnStatsReceivedNegativeResps }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of SNA sessions."
        ::= { snanauGroups 3 }

snaPu20Group
  OBJECT-GROUP
        OBJECTS  { snaPu20StatsSentBytes,
            snaPu20StatsReceivedBytes,
            snaPu20StatsSentPius,
            snaPu20StatsReceivedPius,
```

```
            snaPu20StatsSentNegativeResps,
            snaPu20StatsReceivedNegativeResps,
            snaPu20StatsActLus,
            snaPu20StatsInActLus,
            snaPu20StatsBindLus }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of PU 2.0."
        ::= { snanauGroups 4 }

snaMgtToolsRtmGroup  OBJECT-GROUP
        OBJECTS  { snaLuRtmState,
            snaLuRtmStateTime,
            snaLuRtmDef,
            snaLuRtmBoundary1,
            snaLuRtmBoundary2,
            snaLuRtmBoundary3,
            snaLuRtmBoundary4,
            snaLuRtmCounter1,
            snaLuRtmCounter2,
            snaLuRtmCounter3,
            snaLuRtmCounter4,
            snaLuRtmOverFlows,
             snaLuRtmObjPercent,
            snaLuRtmObjRange,
            snaLuRtmNumTrans,
            snaLuRtmLastRspTime,
            snaLuRtmAvgRspTime }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of RTM for SNA LU 2.0."
        ::= { snanauGroups 5 }

-- end of conformance statement


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-MIB
No license file was found, but licenses were detected in source scan.

```
Modem-MIB DEFINITIONS ::= BEGIN


IMPORTS
```

```
  MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
  Counter32, Integer32 FROM SNMPv2-SMI
  DisplayString FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
  mib-2 FROM RFC1213-MIB;


mdmMIB MODULE-IDENTITY
  LAST-UPDATED "9406120000Z"
  ORGANIZATION "IETF Modem Management Working Group"
  CONTACT-INFO
        "       Steven Waldbusser
         Postal: Carnegie Mellon University
                 5000 Forbes Ave
                 Pittsburgh, PA, 15213
                 US

           Tel: +1 412 268 6628
           Fax: +1 412 268 4987
         E-mail: waldbusser@cmu.edu"
  DESCRIPTION
        "The MIB module for management of dial-up modems."
  ::= { mdmMib 1 }

mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }

mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }


-- conformance information

mdmConformance OBJECT IDENTIFIER
 ::= { mdmMIB 2 }

mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }
mdmGroups      OBJECT IDENTIFIER ::= { mdmConformance 2 }

-- units of conformance

mdmIDGroup    OBJECT-GROUP
  OBJECTS   { mdmIDManufacturerOID, mdmIDProductDetails }
  STATUS    current
  DESCRIPTION
        "A collection of objects that identify the manufacturer and
        model information for a modem."
  ::= { mdmGroups 1 }

mdmLineInterfaceGroup    OBJECT-GROUP
```

```
  OBJECTS { mdmLineCarrierLossTime,
     mdmLineState, mdmLineCapabilitiesID,
     mdmLineCapabilitiesEnableRequested,
     mdmLineCapabilitiesEnableGranted }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of the modem's line interface."
  ::= { mdmGroups 2 }

mdmDTEInterfaceGroup    OBJECT-GROUP
  OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,
           mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

   mdmDTEInactivityTimeout }
  STATUS      current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of the modem's DTE interface."
  ::= { mdmGroups 3 }

mdmCallControlGroup    OBJECT-GROUP
  OBJECTS { mdmCCRingsBeforeAnswer,
     mdmCCCallSetUpFailTimer, mdmCCResultCodeEnable,
     mdmCCEscapeAction, mdmCCCallDuration,
     mdmCCConnectionFailReason, mdmCCStoredDialString }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration of
        call control capabilities on the modem and the status of
        calls placed with this modem."
  ::= { mdmGroups 4 }

mdmErrorControlGroup   OBJECT-GROUP
  OBJECTS { mdmECErrorControlUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of error control on a modem."
  ::= { mdmGroups 5 }

mdmDataCompressionGroup   OBJECT-GROUP
  OBJECTS
 { mdmDCCompressionTypeUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of data compression on a modem."
```

```
  ::= { mdmGroups 6 }

mdmSignalConvertorGroup   OBJECT-GROUP
OBJECTS { mdmSCCurrentLineReceiveRate, mdmSCCurrentLineTransmitRate,
        mdmSCInitialLineReceiveRate, mdmSCInitialLineTransmitRate,
        mdmSCModulationSchemeUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of error control on a modem."
  ::= { mdmGroups 7 }

mdmStatisticsGroup  OBJECT-GROUP
  OBJECTS { mdmStatsRingNoAnswers,
     mdmStatsIncomingConnectionFailures,
     mdmStatsIncomingConnectionCompletions,
     mdmStatsFailedDialAttempts,
     mdmStatsOutgoingConnectionFailures,
     mdmStatsOutgoingConnectionCompletions,
     mdmStatsRetrains,
     mdmStats2400OrLessConnections, mdmStats2400To14400Connections,
      mdmStatsGreaterThan14400Connections,
     mdmStatsErrorControlledConnections,
     mdmStatsCompressedConnections,
     mdmStatsCompressionEfficiency,
     mdmStatsSentOctets, mdmStatsReceivedOctets,
     mdmStatsSentDataFrames, mdmStatsReceivedDataFrames,
     mdmStatsResentFrames, mdmStatsErrorFrames }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the state of calls on
        this modem."
  ::= { mdmGroups 8 }

mdmNumber OBJECT-TYPE
  SYNTAX  Integer32
  MAX-ACCESS  read-only
  STATUS  current
  DESCRIPTION
        "The number of modem rows in the modem table.  This value
        defines the maximum value of the mdmIndex object."
  ::= { mdmMIBObjects 1 }

-- The modem ID table.

mdmIDTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmIDEntry
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
        "The base table for the modems managed by this MIB.  The
        mdmLineTable,
 mdmDTEInterfaceTable, mdmCallControlTable, and
        mdmStatsTable all augment the rows defined in this table."
  ::= { mdmMIBObjects 2 }

mdmIDEntry OBJECT-TYPE
  SYNTAX      MdmIDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  INDEX       { mdmIndex }
  ::= { mdmIDTable 1 }

MdmIDEntry ::= SEQUENCE {
  mdmIndex              Integer32,
  mdmIDManufacturerOID    OBJECT IDENTIFIER,
  mdmIDProductDetails     DisplayString
}

mdmIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A unique number for each modem that ranges from 1 to
        mdmNumber.  The value must remain constant at least from one
        re-initialization of the network management agent to the
        next."
  ::= { mdmIDEntry 1
 }

mdmIDManufacturerOID OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "This value is intended to identify the manufacturer, model,
        and version of this modem.  This may be used to identify the
        existance of enterprise-specific functions and behaviours."
  REFERENCE
        "V.58 attribute manufacturerID subfield ManufacturerOI"
  ::= { mdmIDEntry 2 }
```

```
mdmIDProductDetails OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..79))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "A textual description of this device, including the
        manufacturer's name, modem model name, hardware revision,
        firmware revision, and optionally, its serial number.  The
        exact format of this description is defined by the vendor.
        This description may only contain characters from the NVT
        ASCII character set."
  REFERENCE
         "V.58 attribute manufacturerID subfield productDetails"
  ::= { mdmIDEntry 3 }

-- The modem Line Interface Table

mdmLineTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmLineEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem Line Table augments the modem ID table."
  ::= { mdmMIBObjects 3 }

mdmLineEntry OBJECT-TYPE
  SYNTAX      MdmLineEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmLineTable 1 }

MdmLineEntry ::= SEQUENCE {
  mdmLineCarrierLossTime         Integer32,
  mdmLineState                   INTEGER
}

mdmLineCarrierLossTime OBJECT-TYPE
  SYNTAX      Integer32 (1..255)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Duration in 10ths of a second the modem waits after
 loss of
        carrier before hanging up.  If this value is set to `255',
```

```
        the modem will not hang up upon loss of carrier.  This
        allows the modem to distinguish between a momentary lapse in
        line quality and a true disconnect and can be useful to tune
        the tolerance of the modem to lines of poor quality."
  REFERENCE "V.58 lineSignalFailDisconnectTimer"
  ::= { mdmLineEntry 1 }

mdmLineState OBJECT-TYPE
  SYNTAX      INTEGER {
                unknown(1),
                onHook(2),
                offHook(3),  -- and not connected
                connected(4),
                busiedOut(5),
                reset(6)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Allows the inspection and alteration of the state of the
        modem.  Management commands may change the state to `on-
        hook', `busied-out', or `reset' from any state.  No other

       alterations are permitted from the management protocol.
        When this object is set to reset, the modem shall be reset
        and the value will change to the modem's new, implementation
        dependent state."
  ::= { mdmLineEntry 2 }

mdmLineCapabilitiesTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmLineCapabilitiesEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A list of protocol capabilities for this modem."
  ::= { mdmMIBObjects 4 }

mdmLineCapabilitiesEntry OBJECT-TYPE
  SYNTAX      MdmLineCapabilitiesEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A listing of the protocol(s) that this modem is capable of.
        Entries in this table are created only by the agent.  One
        entry exists for each protocol that the modem is capable of,
        regardless of whether that protocol is enabled or not.

        This table is useful for providing an
```

```
 inventory of the
        capabilities on a modem, and allowing the manager to enable
        or disable capabilities from the menu of available
        possibilities.  Row creation is not required to enable or
        disable capabilities."
  INDEX       { mdmIndex, mdmLineCapabilitiesIndex }
  ::= { mdmLineCapabilitiesTable 1 }

MdmLineCapabilitiesEntry ::= SEQUENCE {
  mdmLineCapabilitiesIndex           Integer32,
  mdmLineCapabilitiesID              OBJECT IDENTIFIER,
  mdmLineCapabilitiesEnableRequested  INTEGER,
  mdmLineCapabilitiesEnableGranted    INTEGER
}

mdmLineCapabilitiesIndex OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A unique index for this capabilities entry."
  ::= { mdmLineCapabilitiesEntry 1 }

mdmLineCapabilitiesID OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "An identifier for
 this capability.  Standard protocol
        capabilities will have identifiers registered in this
        document or other companion standards documents.
        Proprietary protocol capabilities will be registered by
        their respective organization.  All capabilities, standard
        or vendor-specific, shall be registered in this table."
  ::= { mdmLineCapabilitiesEntry 2 }

mdmLineCapabilitiesEnableRequested OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                optional(2),
                preferred(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The requested configuration of this capability.  If this
        value is 'disabled(1)', this is a request to disable this
```

```
        protocol.  If this value is 'preferred(3)', this is a
        request to enable this protocol, and to prefer it in any
        negotiation over other appropriate protocols
 that have a
        value of 'optional(2)'."
  DEFVAL      { preferred }
  ::= { mdmLineCapabilitiesEntry 3 }

mdmLineCapabilitiesEnableGranted OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                optional(2),
                preferred(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The actual configuration of this capability.  The agent
        shall attempt to set this as close as possible to the
        associated mdmLineCapabilitiesEnableRequested value.  The
        agent shall make this determination in an implementation-
        specific manner that may take into account the configuration
        of other capabilities or other considerations.  The modem
        will choose in an implementation-specific manner between
        multiple mutually-exclusive capabilities that each have the
        same (non-disabled) value.  However, the modem must prefer
         all capabilities with a value of 'preferred(3)' over all
        capabilities with a value of 'optional(2)'.

        In other words, if there are one or more mutually-exclusive
        capabilities (e.g. V.32 and V.32bis) that are set to
        `preferred', the agent must choose one in an
        implementation-specific manner.  Otherwise, if there are one
        or more mutually-exclusive capabilities that are set to
        `optional', the agent must choose one in an implementation-
        specific manner."
  ::= { mdmLineCapabilitiesEntry 4 }

mdmLineCapabilities   OBJECT IDENTIFIER ::= { mdmMIBObjects 5 }

mdmLineCapabilitiesV21 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.21"
  ::= { mdmLineCapabilities 1 }

mdmLineCapabilitiesV22 OBJECT-IDENTITY
  STATUS  current
```

```
  DESCRIPTION
        "ITU V.22"
  ::= { mdmLineCapabilities 2 }

mdmLineCapabilitiesV22bis OBJECT-IDENTITY
  STATUS  current
   DESCRIPTION
        "ITU V.22bis"
  ::= { mdmLineCapabilities 3 }

mdmLineCapabilitiesV23CC OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.23CC"
  ::= { mdmLineCapabilities 4 }

mdmLineCapabilitiesV23SC OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.23SC"
  ::= { mdmLineCapabilities 5 }

mdmLineCapabilitiesV25bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.25bis"
  ::= { mdmLineCapabilities 6 }

mdmLineCapabilitiesV26bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.26bis"
  ::= { mdmLineCapabilities 7 }

mdmLineCapabilitiesV26ter OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.26ter"
  ::= { mdmLineCapabilities 8 }

mdmLineCapabilitiesV27ter OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.27ter"
  ::= { mdmLineCapabilities 9 }

mdmLineCapabilitiesV32 OBJECT-IDENTITY
  STATUS  current
```

```
  DESCRIPTION
        "ITU V.32"
   ::= { mdmLineCapabilities 10 }

mdmLineCapabilitiesV32bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.32bis"
  ::= { mdmLineCapabilities 11 }

mdmLineCapabilitiesV32terbo OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.32terbo"
  ::= { mdmLineCapabilities 12 }

mdmLineCapabilitiesVFC OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.FC"
  ::= { mdmLineCapabilities 13 }

mdmLineCapabilitiesV34 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.34"
  ::= { mdmLineCapabilities 14 }

mdmLineCapabilitiesV42 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.42"
  ::= { mdmLineCapabilities 15 }

mdmLineCapabilitiesV42bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.42bis"
  ::= { mdmLineCapabilities 16 }

mdmLineCapabilitiesMNP1 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP1"
  ::= { mdmLineCapabilities 17 }

mdmLineCapabilitiesMNP2
```

```
 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP2"
   ::= { mdmLineCapabilities 18 }

mdmLineCapabilitiesMNP3 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP3"
   ::= { mdmLineCapabilities 19 }

mdmLineCapabilitiesMNP4 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP4"
   ::= { mdmLineCapabilities 20 }

mdmLineCapabilitiesMNP5 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP5"
   ::= { mdmLineCapabilities 21 }

mdmLineCapabilitiesMNP6 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP6"
   ::= { mdmLineCapabilities 22 }

mdmLineCapabilitiesMNP7 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP7"
   ::= { mdmLineCapabilities 23 }

mdmLineCapabilitiesMNP8 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION
         "MNP8"
   ::= { mdmLineCapabilities 24 }

mdmLineCapabilitiesMNP9 OBJECT-IDENTITY
   STATUS  current
   DESCRIPTION

   "MNP9"
   ::= { mdmLineCapabilities 25 }
```

```
mdmLineCapabilitiesMNP10 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP10"
  ::= { mdmLineCapabilities 26 }

mdmLineCapabilitiesV29 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.29"
  ::= { mdmLineCapabilities 27 }

mdmLineCapabilitiesV33 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.33"
  ::= { mdmLineCapabilities 28 }

mdmLineCapabilitiesBell208 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "Bell 208"
  ::= { mdmLineCapabilities 29 }


-- DTE Interface Table

mdmDTEInterfaceTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmDTEInterfaceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem DTE Interface Table augments the modem ID table."
  ::= { mdmMIBObjects 6 }

mdmDTEInterfaceEntry OBJECT-TYPE
  SYNTAX      MdmDTEInterfaceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
         "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmDTEInterfaceTable 1 }

MdmDTEInterfaceEntry ::= SEQUENCE {
  mdmDTEActionDTROnToOff      INTEGER,
```

```
  mdmDTEActionDTROffToOn      INTEGER,
  mdmDTESyncTimingSource      INTEGER,
  mdmDTESyncAsyncMode         INTEGER,
  mdmDTEInactivityTimeout     Integer32
}

mdmDTEActionDTROnToOff OBJECT-TYPE
  SYNTAX      INTEGER {
                ignore(1),
                escapeToCommandMode(2),
                disconnectCall(3),
                resetModem(4)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Defines the action the modem will take when DTR drops.

        If the value is set to ignore(1), the modem takes no action
        when DTR drops.  Typically, mdmDTEActionDTROffToOn would
        also be set to ignore(1) if this object
 is set to ignore(1).

        If the value is escapeToCommandMode(2), the modem remains
        connected and enters command mode.  If the value is
        disconnectCall(3), the current call (if any) is terminated
        and the modem will not auto-answer while DTR is off.  If the
        value is resetModem(4), the current call (if any) is
        terminated and the modem is reset."
  DEFVAL      { disconnectCall }
  ::= { mdmDTEInterfaceEntry 1 }

mdmDTEActionDTROffToOn OBJECT-TYPE
  SYNTAX      INTEGER {
                ignore(1),
                enableDial(2),
                autoAnswerEnable(3),
                establishConnection(4)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Defines the action the modem will take when DTR is raised.

        If the value is set to ignore(1), the modem takes no action
        when DTR is raised.  Typically, mdmDTEActionDTROnToOff would
         also be set to ignore(1) if this object is set to ignore(1).
```

```
        If the value is set to enableDial(2), the modem prepares to
        dial an outgoing call.  If the value is set to
        autoAnswerEnable(3), the modem will be configured to answer
        any incoming call.  If the value is set to
        establishConnection(4), the modem dials an implementation
        specific number.

        Immediately after any reset or power-on of the modem, if the
        DTR is high, the action specified here will be executed."
    DEFVAL      { autoAnswerEnable }
    ::= { mdmDTEInterfaceEntry 2 }

mdmDTESyncTimingSource OBJECT-TYPE
    SYNTAX      INTEGER {
                    internal(1),
                    external(2),
                    loopback(3),
                    network(4)
                }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The clock source for synchronous transmissions.  If set to
         internal(1), the modem is the clock source and sends the
        clock signals to the DTE.  If set to external(2), the
        transmit clock signals are provided by the DTE.  If
        loopback(3), the modem receiver clock is used for the
        transmit clock.  If network(4), the clock signals are
        supplied by the DCE interface.

        If the modem is not in synchronous mode, setting this object
        will have no effect on the current operations of the modem."
    REFERENCE   "V.58 transmitClockSource"
    DEFVAL      { internal }
    ::= { mdmDTEInterfaceEntry 3 }

mdmDTESyncAsyncMode OBJECT-TYPE
    SYNTAX      INTEGER {
                    async(1),
                    sync(2),
                    syncAfterDial(3)
                }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The operational mode of the modem.  If the value is
        syncAfterDial(3), the modem will accept commands in
```

```
        asynchronous mode and change to synchronous mode to pass
        data after a dial sequence has been executed."
  DEFVAL      { async }
  ::= { mdmDTEInterfaceEntry 4 }

mdmDTEInactivityTimeout OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The amount of idle time in minutes that the modem will wait
        before disconnecting a connection.  When a call is connected
        and no data is transferred (continuous marking condition) on
        both circuits 103 and 104 for the specified time, the DCE
        disconnects the call. If the value is 0, no idle disconnect
        will occur.  This function applies to asynchronous dial
        operations only and is intended for administrative control
        over idle connections."
  REFERENCE   "V.58 inactivityTimerSelect"
  DEFVAL { 0 }
  ::= { mdmDTEInterfaceEntry 5 }


-- The Call Control Table

mdmCallControlTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmCallControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem Call Control Table augments the modem ID table."
  ::= { mdmMIBObjects 7 }

mdmCallControlEntry OBJECT-TYPE
  SYNTAX      MdmCallControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmCallControlTable 1 }

MdmCallControlEntry ::= SEQUENCE {
  mdmCCRingsBeforeAnswer      Integer32,
  mdmCCCallSetUpFailTimer     Integer32,
  mdmCCResultCodeEnable       INTEGER,
```

```
  mdmCCEscapeAction          INTEGER,
  mdmCCCallDuration          Integer32,
  mdmCCConnectionFailReason  INTEGER
}

mdmCCRingsBeforeAnswer OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION

       "Determines which ring the modem will wait to answer the
        phone on.  If this value is `0', the modem will not go
        offhook and answer a call when a ring signal is detected."
  REFERENCE   "V.58 ringsBeforeAnswer"
  DEFVAL      { 1 }
  ::= { mdmCallControlEntry 1 }

mdmCCCallSetUpFailTimer OBJECT-TYPE
  SYNTAX      Integer32 (0..255)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
       "This parameter specifies the amount of time, in seconds,
       that the modem shall allow between either answering a call
       (automatically or manually) or completion of dialing, and
       establishment of a connection with the remote modem. If no
       connection is established during this time, the modem
       disconnects from the line and returns a result code
       indicating the cause of the disconnection. In TIA-602, this
       is controlled by the value in the S7 register."
  REFERENCE   "V.58
 callSetUpFailTimer"
  DEFVAL      { 30 }
  ::= { mdmCallControlEntry 2 }

mdmCCResultCodeEnable OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                numericEnabled(2),
                verboseEnabled(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
       "When disabled, the DCE shall issue no 'result codes' of any
       kind to the DTE either in response to unsolicited events
       (eg. ring signal), or commands. In TIA-602, this is
```

```
        controlled by the ATQ command.  When numericEnabled, the DCE
        shall issue result codes in numeric form.  When
        verboseEnabled, the DCE shall issue result codes in a
        verbose, textual form."
  REFERENCE   "V.58 responseModeSelect"
  DEFVAL      { verboseEnabled }
  ::= { mdmCallControlEntry 3 }

mdmCCEscapeAction OBJECT-TYPE
  SYNTAX      INTEGER {
                ignoreEscape(1),

    hangUp(2),
                enterCommandMode(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The modem's action upon successfully recognizing the
        'escape to command mode' character sequence."
  DEFVAL { ignoreEscape }
  ::= { mdmCallControlEntry 4 }

-- Call status portion of the call control table

mdmCCCallDuration OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Present or last completed connection time in seconds. If
        there have been no previous connections, this value should
        be -1."
  ::= { mdmCallControlEntry 5 }


mdmCCConnectionFailReason OBJECT-TYPE
  SYNTAX      INTEGER {
            -- General
                 unknown(1),
                 other(2),
                 managementCommand(3),
                 inactivityTimeout(4),
                 mnpIncompatibility(5),

                protocolError(6),
            -- DCE
                 powerLoss(10),
```

```
            equipmentFailure(11),
        -- DTE Interface
            dtrDrop(20),
        -- Line Interface
            noDialTone(30),
            lineBusy(31),
            noAnswer(32),
            voiceDetected(33),
        -- Signal Converter
            carrierLost(40),
            trainingFailed(41),
            faxDetected(42)
    }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
```

"Indicates the reason that the last connection or attempt failed. The meaning of each reason code is explained below.

unknown:
This code means the failure reason is unknown or there has been no previous call.

other:
This code used when no other code is applicable. Additional vendor information may be available elsewhere.

managementCommand:
A management command terminated the call. These commands include escaping to command mode, initiating dialing, restoring lines, and disconnecting.

inactivityTimeout:
The call was terminated because it was inactive for at the minimum duration specified.

mnpIncompatibility:
The modems are unable to resolve MNP protocol differences.

protocolError:
An error occured in one of protocol in use. Further information is required to determine in which protocol the error occurred, and the exact nature of the error.

powerLoss:
The modem lost power and disconnected the call.

equipmentFailure:
The modem equipment failed.

dtrDrop:

DTR has been turned off while the modem is to
disconnect on DTR drop. (Ref: V.58 cct108TurnedOff)

noDialTone:
If the modem is to monitor for call progress tones,
but the modem has failed to detect dial tone while
attempting to dial a number.

lineBusy:
Busy signal is detected while busy signal detection
is enabled, or while the 'W' or '@' dial modifier is
used. (Ref: V.58 engagedTone)

noAnswer:
The call was not answered.

voiceDetected:
A voice was detected on the call.

carrierLost:
Indicates that the modem has disconnected due to
detection of loss of carrier. In TIA-602, the S10
register determines the time that loss of carrier
must be detected before the modem disconnects.

trainingFailed:
Indicates that the modems did
not successfully train
and reach data mode on the previous connection.

faxDetected:
A fax was detected on the call."
REFERENCE "V.58 callCleared"
::= { mdmCallControlEntry 6 }

-- The Stored Dial String table

mdmCCStoredDialStringTable OBJECT-TYPE
SYNTAX SEQUENCE OF MdmCCStoredDialStringEntry
MAX-ACCESS not-accessible

```
  STATUS      current
  DESCRIPTION
        "The table of stored dial strings."
  REFERENCE   "V.58 telephoneNumbers"
  ::= { mdmMIBObjects 8 }

mdmCCStoredDialStringEntry OBJECT-TYPE
  SYNTAX      MdmCCStoredDialStringEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A stored dial string."
  INDEX  { mdmIndex, mdmCCStoredDialStringIndex }
  ::= { mdmCCStoredDialStringTable 1 }

MdmCCStoredDialStringEntry ::= SEQUENCE {
  mdmCCStoredDialStringIndex     Integer32,
  mdmCCStoredDialString          DisplayString
}

mdmCCStoredDialStringIndex OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The unique index of a particular dial string."
  ::= { mdmCCStoredDialStringEntry 1 }

mdmCCStoredDialString OBJECT-TYPE
  SYNTAX      DisplayString (SIZE(0..64))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "A dial string stored in the modem."
  ::= { mdmCCStoredDialStringEntry 2 }

-- The modem Error Correcting Group

mdmECTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmECEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem error correcting table augments the modem ID
        table."
  ::= { mdmMIBObjects 9 }

mdmECEntry OBJECT-TYPE
```

```
  SYNTAX      MdmECEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS
   { mdmIDEntry }
  ::= { mdmECTable 1 }

MdmECEntry ::= SEQUENCE {
  mdmECErrorControlUsed          OBJECT IDENTIFIER
}

mdmECErrorControlUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Indicates the error control method used during the current
        or previous call.  This shall be one of the values for error
        control protocols registered in the capabilities table for
        this modem.  If no error control protocol is in use, this
        object shall have the value '{0 0}'."
  REFERENCE   "V.58 errorControlActive"
  ::= { mdmECEntry 1 }

-- The modem Data Compression Group

mdmDCTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmDCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem data compression table augments the modem ID
        table."
  ::= { mdmMIBObjects 10 }

mdmDCEntry OBJECT-TYPE
  SYNTAX      MdmDCEntry
   MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmDCTable 1 }
```

```
MdmDCEntry ::= SEQUENCE {
  mdmDCCompressionTypeUsed        OBJECT IDENTIFIER
}

mdmDCCompressionTypeUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Indicates the data compression method used during the
        current or previous call.  This shall be one of the values
        for compression protocols registered in the capabilities
        table for this modem.  If no compression protocol is in use,
        this object shall have the value '{0 0}'."
  ::= { mdmDCEntry 1 }

-- The modem Signal Convertor Group

mdmSCTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmSCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
        "The modem signal convertor table augments the modem ID
        table."
  ::= { mdmMIBObjects 11 }

mdmSCEntry OBJECT-TYPE
  SYNTAX      MdmSCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmSCTable 1 }

MdmSCEntry ::= SEQUENCE {
  mdmSCCurrentLineTransmitRate        Integer32,
  mdmSCCurrentLineReceiveRate         Integer32,
  mdmSCInitialLineTransmitRate        Integer32,
  mdmSCInitialLineReceiveRate         Integer32,
  mdmSCModulationSchemeUsed           OBJECT IDENTIFIER
}

mdmSCCurrentLineTransmitRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
        "The current link transmit rate of a connection, or the last
        link transmit rate of the last connection
 in bits per
        second."
  REFERENCE   "V.58 transmissionSignallingRateActive"
  ::= { mdmSCEntry 1 }

mdmSCCurrentLineReceiveRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The current link receive rate of a connection, or the last
        link receive rate of the last connection in bits per
        second."
  REFERENCE   "V.58 transmissionSignallingRateActive"
  ::= { mdmSCEntry 2 }

mdmSCInitialLineTransmitRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The initial link transmit rate of the current connection,
        or the initial link transmit rate of the last connection in
        bits per second."
  ::= { mdmSCEntry 3 }

mdmSCInitialLineReceiveRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The initial link receive rate of the
 current connection, or
        the initial link receive rate of the last connection in bits
        per second."
  ::= { mdmSCEntry 4 }

mdmSCModulationSchemeUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The modulation scheme of the current or previous call.
        This shall be one of the values for modulation protocols
```

```
        registered in the capabilities table for this modem."
    REFERENCE   "V.58 gstnModulationSchemeActive"
    ::= { mdmSCEntry 5 }

-- The Modem Statistics Table

mdmStatsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF MdmStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The modem statistics Table augments the modem ID table."
    ::= { mdmMIBObjects 12 }

mdmStatsEntry OBJECT-TYPE
    SYNTAX      MdmStatsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Entries in this table are
 created only by the agent. One
        entry exists for each modem managed by the agent."
    AUGMENTS    { mdmIDEntry }
    ::= { mdmStatsTable 1 }

MdmStatsEntry ::= SEQUENCE {
    mdmStatsRingNoAnswers                   Counter32,
    mdmStatsIncomingConnectionFailures      Counter32,
    mdmStatsIncomingConnectionCompletions   Counter32,
    mdmStatsFailedDialAttempts              Counter32,
    mdmStatsOutgoingConnectionFailures      Counter32,
    mdmStatsOutgoingConnectionCompletions   Counter32,
    mdmStatsRetrains                        Counter32,
    mdmStats2400OrLessConnections           Counter32,
    mdmStats2400To14400Connections          Counter32,
    mdmStatsGreaterThan14400Connections     Counter32,
    mdmStatsErrorControlledConnections      Counter32,
    mdmStatsCompressedConnections           Counter32,
    mdmStatsCompressionEfficiency           Integer32,
    mdmStatsSentOctets                      Counter32,
    mdmStatsReceivedOctets
 Counter32,
    mdmStatsSentDataFrames                  Counter32,
    mdmStatsReceivedDataFrames              Counter32,
    mdmStatsResentFrames                    Counter32,
    mdmStatsErrorFrames                     Counter32
}
```

```
mdmStatsRingNoAnswers OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of events in which ringing was detected but the
        call was not answered."
  ::= { mdmStatsEntry 1 }

mdmStatsIncomingConnectionFailures OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of incoming connection requests that this modem
        answered in which it could not train with the other DCE."
  ::= { mdmStatsEntry 2 }

mdmStatsIncomingConnectionCompletions OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of incoming connection requests
 that this modem
        answered and successfully trained with the other DCE."
  ::= { mdmStatsEntry 3 }

mdmStatsFailedDialAttempts OBJECT-TYPE
      SYNTAX          Counter32
      MAX-ACCESS  read-only
      STATUS          current
      DESCRIPTION
            "The number of call attempts that failed because the modem
      didn't go off hook, or there was no dialtone."
      ::= { mdmStatsEntry 4 }

mdmStatsOutgoingConnectionFailures OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of outgoing calls from this modem which
        sucessfully went off hook and dialed, in which it could not
        train with the other DCE."
  ::= { mdmStatsEntry 5 }

mdmStatsOutgoingConnectionCompletions OBJECT-TYPE
```

```
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of outgoing calls from this modem which resulted

    in successfully training with the other DCE."
  ::= { mdmStatsEntry 6 }

mdmStatsRetrains OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of retrains experienced on connections on this
        line."
  ::= { mdmStatsEntry 7 }


-- Utilization counters

mdmStats2400OrLessConnections OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
        modulation speed of 2400 bits per second or less."
  ::= { mdmStatsEntry 8 }


mdmStats2400To14400Connections OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
        modulation speed of greater than 2400 bits per second and
        less than 14400 bits per second."
  ::= { mdmStatsEntry 9 }

mdmStatsGreaterThan14400Connections
 OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
```

```
        modulation speed of greater than 14400 bits per second."
    ::= { mdmStatsEntry 10 }

mdmStatsErrorControlledConnections OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of established connections using an error
        control protocol."
    ::= { mdmStatsEntry 11 }

mdmStatsCompressedConnections OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of established connections using a compression
        protocol."
    ::= { mdmStatsEntry 12 }

mdmStatsCompressionEfficiency OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of bytes transferred
 into the compression
        encoder divided by the number of bytes transferred out of
        the encoder, multiplied by 100 for either the current or
        last call.  If a data compression protocol is not in use,
        this value shall be `100'."
    REFERENCE   "V.58 compressionEfficiency"
    ::= { mdmStatsEntry 13 }

mdmStatsSentOctets OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of octets presented to the modem by the DTE."
    ::= { mdmStatsEntry 14 }

mdmStatsReceivedOctets OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
```

```
        "The number of octets presented to the DTE by the modem."
  ::= { mdmStatsEntry 15 }

mdmStatsSentDataFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of data frames sent on the line interface.  If

       there is no frame-oriented protocol in use on the line
        interface, this counter shall not increment."
  ::= { mdmStatsEntry 16 }

mdmStatsReceivedDataFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of data frames received on the line interface.
        If there is no frame-oriented protocol in use on the line
        interface, this counter shall not increment."
  ::= { mdmStatsEntry 17 }

mdmStatsResentFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of times this modem retransmits frames on the
        line interface.  If there is no frame-oriented protocol in
        use on the line interface, this counter shall not
        increment."
  ::= { mdmStatsEntry 18 }

mdmStatsErrorFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
   DESCRIPTION
        "The number of block errors received on the link.  If there
        is no frame-oriented protocol in use on the line interface,
        this counter shall not increment."
  ::= { mdmStatsEntry 19 }


-- compliance statements
```

```
mdmCompliance MODULE-COMPLIANCE
  STATUS  current
  DESCRIPTION
        "The compliance statement for SNMPv2 entities which
        implement the modem MIB."

  MODULE  -- this module
    MANDATORY-GROUPS { mdmIDGroup, mdmLineInterfaceGroup,
          mdmDTEInterfaceGroup, mdmCallControlGroup,
          mdmSignalConvertorGroup, mdmStatisticsGroup }

    GROUP   mdmErrorControlGroup
    DESCRIPTION
      "This group is mandatory only for those modems that
      implement an error correction protocol."

    GROUP mdmDataCompressionGroup
    DESCRIPTION
      "This group is mandatory only for those modems that
      implement a data compression protocol."

 ::= { mdmCompliances 1 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB
No license file was found, but licenses were detected in source scan.

```
IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

 IMPORTS
   MODULE-IDENTITY, mib-2       FROM SNMPv2-SMI
   TEXTUAL-CONVENTION           FROM SNMPv2-TC;

  ianaItuAlarmNumbers MODULE-IDENTITY
    LAST-UPDATED "200409090000Z"  -- September 09, 2004
    ORGANIZATION "IANA"
    CONTACT-INFO
      "Postal:    Internet Assigned Numbers Authority
                  Internet Corporation for Assigned Names
                  and Numbers
                  4676 Admiralty Way, Suite 330
                  Marina del Rey, CA 90292-6601
                  USA

       Tel:    +1  310-823-9358
```

E-Mail: iana&iana.org"
DESCRIPTION
"The MIB module defines the ITU Alarm
textual convention for objects expected to require
regular extension.

Copyright (C) The Internet Society (2004). The
initial version
of this MIB module was published
in RFC 3877. For full legal notices see the RFC
itself. Supplementary information may be available on:
http://www.ietf.org/copyrights/ianamib.html"
REVISION "200409090000Z"
DESCRIPTION
"Initial version, published as RFC 3877."
::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.
IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved
for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a
first-come, first served basis and will be assigned
enumeration values starting with 1025.

Request should come in the form of well-formed
SMI [RFC2578] for enumeration names that are unique and
sufficiently descriptive.

While some effort will be taken to ensure that new probable
causes do not conceptually duplicate existing probable
causes it is acknowledged that the existence of conceptual
duplicates in the starting probable cause list is an known
industry reality.

```
        To aid IANA in the administration of probable cause names
        and values, the OPS Area Director will appoint one or more
        experts to help review requests.

        See http://www.iana.org"
    REFERENCE
       "ITU Recommendation M.3100,
'Generic Network Information
          Model', 1995
        ITU Recommendation X.733, 'Information Technology - Open
          Systems Interconnection - System Management: Alarm
          Reporting Function', 1992
        ITU Recommendation X.736, 'Information Technology - Open
          Systems Interconnection - System Management: Security
          Alarm Reporting Function', 1992"

    SYNTAX        INTEGER
          {
          -- The following probable causes were defined in M.3100
           aIS  (1),
           callSetUpFailure  (2),
           degradedSignal  (3),
           farEndReceiverFailure  (4),
           framingError  (5),
           lossOfFrame (6),
           lossOfPointer  (7),
           lossOfSignal  (8),
           payloadTypeMismatch (9),
           transmissionError (10),
           remoteAlarmInterface (11),
           excessiveBER  (12),

 pathTraceMismatch  (13),
           unavailable  (14),
           signalLabelMismatch (15),
           lossOfMultiFrame (16),
           receiveFailure (17),
           transmitFailure (18),
           modulationFailure (19),
           demodulationFailure (20),
           broadcastChannelFailure (21),
           connectionEstablishmentError (22),
           invalidMessageReceived (23),
           localNodeTransmissionError (24),
           remoteNodeTransmissionError (25),
           routingFailure (26),
  --Values 27-50 are reserved for communications alarm related
  --probable causes
```

```
-- The following are used with equipment alarm.
        backplaneFailure (51),
        dataSetProblem  (52),
        equipmentIdentifierDuplication  (53),
        externalIFDeviceProblem  (54),
        lineCardProblem (55),
        multiplexerProblem  (56),
        nEIdentifierDuplication
(57),
        powerProblem  (58),
        processorProblem  (59),
        protectionPathFailure  (60),
        receiverFailure  (61),
        replaceableUnitMissing  (62),
        replaceableUnitTypeMismatch (63),
        synchronizationSourceMismatch  (64),
        terminalProblem   (65),
        timingProblem   (66),
        transmitterFailure  (67),
        trunkCardProblem  (68),
        replaceableUnitProblem  (69),
        realTimeClockFailure (70),
--An equipment alarm to be issued if the system detects that the
--real time clock has failed
        antennaFailure (71),
        batteryChargingFailure (72),
        diskFailure (73),
        frequencyHoppingFailure (74),
        iODeviceError (75),
        lossOfSynchronisation (76),
        lossOfRedundancy (77),
        powerSupplyFailure (78),
         signalQualityEvaluationFailure (79),
        tranceiverFailure (80),
        protectionMechanismFailure (81),
        protectingResourceFailure (82),
-- Values 83-100 are reserved for equipment alarm related probable
-- causes
-- The following are used with environmental alarm.
        airCompressorFailure  (101),
        airConditioningFailure  (102),
        airDryerFailure   (103),
        batteryDischarging  (104),
        batteryFailure   (105),
        commercialPowerFailure  (106),
        coolingFanFailure  (107),
        engineFailure  (108),
        fireDetectorFailure  (109),
```

```
            fuseFailure  (110),
            generatorFailure  (111),
            lowBatteryThreshold (112),
            pumpFailure  (113),
            rectifierFailure  (114),
            rectifierHighVoltage  (115),
            rectifierLowFVoltage
(116),
            ventilationsSystemFailure  (117),
            enclosureDoorOpen  (118),
            explosiveGas  (119),
            fire (120),
            flood   (121),
            highHumidity  (122),
            highTemperature  (123),
            highWind  (124),
            iceBuildUp  (125),
            intrusionDetection  (126),
            lowFuel  (127),
            lowHumidity  (128),
            lowCablePressure  (129),
            lowTemperatue  (130),
            lowWater  (131),
            smoke  (132),
            toxicGas  (133),
            coolingSystemFailure (134),
            externalEquipmentFailure (135),
            externalPointFailure (136),
    -- Values 137-150 are reserved for environmental alarm related
    -- probable causes
    -- The following are used with Processing error alarm.
            storageCapacityProblem (151),
            memoryMismatch  (152),

           corruptData  (153),
            outOfCPUCycles   (154),
            sfwrEnvironmentProblem  (155),
            sfwrDownloadFailure  (156),
            lossOfRealTimel (157),
    --A processing error alarm to be issued after the system has
    --reinitialised. This will indicate
    --to the management systems that the view they have of the managed
    --system may no longer
    --be valid. Usage example: The managed
    --system issues this alarm after a reinitialization with severity
    --warning to inform the
    --management system about the event. No clearing notification will
    --be sent.
```

```
            applicationSubsystemFailure (158),
            configurationOrCustomisationError (159),
            databaseInconsistency (160),
            fileError (161),
            outOfMemory (162),
            softwareError (163),
            timeoutExpired (164),
            underlayingResourceUnavailable (165),
            versionMismatch
(166),
  --Values 168-200 are reserved for processing error alarm related
  -- probable causes.
            bandwidthReduced (201),
            congestion (202),
            excessiveErrorRate (203),
            excessiveResponseTime (204),
            excessiveRetransmissionRate (205),
            reducedLoggingCapability (206),
            systemResourcesOverload (207 ),
            -- The following were defined X.733
            adapterError (500),
            applicationSubsystemFailture (501),
            bandwidthReducedX733 (502),
            callEstablishmentError (503),
            communicationsProtocolError (504),
            communicationsSubsystemFailure (505),
            configurationOrCustomizationError (506),
            congestionX733 (507),
            coruptData (508),
            cpuCyclesLimitExceeded (509),
            dataSetOrModemError (510),
            degradedSignalX733
(511),
            dteDceInterfaceError (512),
            enclosureDoorOpenX733 (513),
            equipmentMalfunction (514),
            excessiveVibration (515),
            fileErrorX733 (516),
            fireDetected (517),
            framingErrorX733 (518),
            heatingVentCoolingSystemProblem (519),
            humidityUnacceptable (520),
            inputOutputDeviceError (521),
            inputDeviceError (522),
            lanError (523),
            leakDetected (524),
            localNodeTransmissionErrorX733 (525),
            lossOfFrameX733 (526),
```

lossOfSignalX733 (527),
materialSupplyExhausted (528),
multiplexerProblemX733 (529),
outOfMemoryX733 (530),
ouputDeviceError (531),
performanceDegraded (532),
powerProblems (533),
pressureUnacceptable (534),

processorProblems (535),
pumpFailureX733 (536),
queueSizeExceeded (537),
receiveFailureX733 (538),
receiverFailureX733 (539),
remoteNodeTransmissionErrorX733 (540),
resourceAtOrNearingCapacity (541),
responseTimeExecessive (542),
retransmissionRateExcessive (543),
softwareErrorX733 (544),
softwareProgramAbnormallyTerminated (545),
softwareProgramError (546),
storageCapacityProblemX733 (547),
temperatureUnacceptable (548),
thresholdCrossed (549),
timingProblemX733 (550),
toxicLeakDetected (551),
transmitFailureX733 (552),
transmiterFailure (553),
underlyingResourceUnavailable (554),
versionMismatchX733 (555),
-- The following are defined in X.736

authenticationFailure (600),
breachOfConfidentiality (601),
cableTamper (602),
delayedInformation (603),
denialOfService (604),
duplicateInformation (605),
informationMissing (606),
informationModificationDetected (607),
informationOutOfSequence (608),
keyExpired (609),
nonRepudiationFailure (610),
outOfHoursActivity (611),
outOfService (612),
proceduralError (613),
unauthorizedAccessAttempt (614),
unexpectedInformation (615),

```
            other (1024)
            }

 IANAItuEventType ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
          "The ITU event Type values.

          The Internet Assigned Number Authority (IANA) is
          responsible for the assignment of the enumerations

  in this TC.

          Request should  come in the form of well-formed
          SMI [RFC2578] for enumeration names that are unique
          and sufficiently descriptive.

          See http://www.iana.org "
    REFERENCE
         "ITU Recommendation X.736, 'Information Technology - Open
          Systems Interconnection - System Management: Security
          Alarm Reporting Function', 1992"
    SYNTAX        INTEGER
         {
         other (1),
         communicationsAlarm (2),
         qualityOfServiceAlarm (3),
         processingErrorAlarm (4),
         equipmentAlarm (5),
         environmentalAlarm (6),
         integrityViolation (7),
         operationalViolation (8),
         physicalViolation (9),
         securityServiceOrMechanismViolation (10),
         timeDomainViolation (11)
         }

  END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB
No license file was found, but licenses were detected in source scan.

SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS
   MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
```

```
  TimeTicks, Counter32, snmpModules, mib-2
    FROM SNMPv2-SMI
  DisplayString, TestAndIncr, TimeStamp




    FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
    FROM SNMPv2-CONF;

snmpMIB MODULE-IDENTITY
  LAST-UPDATED "200210160000Z"
  ORGANIZATION "IETF SNMPv3 Working Group"
  CONTACT-INFO
        "WG-EMail:   snmpv3@lists.tislabs.com
         Subscribe:  snmpv3-request@lists.tislabs.com

         Co-Chair:   Russ Mundy
                     Network Associates Laboratories
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                     USA
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         Editor:     Randy Presuhn
                     BMC Software, Inc.
         postal:     2141 North First Street
                     San Jose, CA 95131
                     USA
         EMail:      randy_presuhn@bmc.com
         phone:      +1 408 546-1006"
  DESCRIPTION
        "The MIB module for SNMP entities.

         Copyright (C) The Internet Society (2002). This
         version of this MIB module is part of RFC 3418;
         see the RFC itself for full legal notices.
```

```
        "
  REVISION      "200210160000Z"
  DESCRIPTION
        "This revision of this MIB module was published as
         RFC 3418."
  REVISION      "199511090000Z"
  DESCRIPTION




        "This revision of this MIB module was published as
         RFC 1907."
  REVISION      "199304010000Z"
  DESCRIPTION
        "The initial revision of this MIB module was published
        as RFC 1450."
  ::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

--  ::= { snmpMIBObjects 1 }       this OID is obsolete
--  ::= { snmpMIBObjects 2 }       this OID is obsolete
--  ::= { snmpMIBObjects 3 }       this OID is obsolete

-- the System group
--
-- a collection of objects common to all managed systems.

system   OBJECT IDENTIFIER ::= { mib-2 1 }

sysDescr OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..255))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "A textual description of the entity.  This value should
        include the full name and version identification of
        the system's hardware type, software operating-system,
        and networking software."
  ::= { system 1 }

sysObjectID
 OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

```
        "The vendor's authoritative identification of the
        network management subsystem contained in the entity.
        This value is allocated within the SMI enterprises
        subtree (1.3.6.1.4.1) and provides an easy and
        unambiguous means for determining `what kind of box' is
        being managed.  For example, if vendor `Flintstones,
        Inc.' was assigned the subtree 1.3.6.1.4.1.424242,
        it could assign the identifier 1.3.6.1.4.1.424242.1.1
        to its `Fred Router'."
  ::= { system 2 }

sysUpTime OBJECT-TYPE



  SYNTAX      TimeTicks
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The time (in hundredths of a second) since the
        network management portion of the system was last
        re-initialized."
  ::= { system 3 }

sysContact OBJECT-TYPE
   SYNTAX      DisplayString (SIZE (0..255))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The textual identification of the contact person for
        this managed node, together with information on how
        to contact this person.  If no contact information is
        known, the value is the zero-length string."
  ::= { system 4 }

sysName OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..255))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "An administratively-assigned name for this managed
        node.  By convention, this is the node's fully-qualified
        domain name.  If the name is unknown, the value is
        the zero-length string."
  ::= { system 5 }

sysLocation OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..255))
```

```
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
          "The physical location of this node (e.g., 'telephone
          closet,
 3rd floor').  If the location is unknown, the
          value is the zero-length string."
  ::= { system 6 }

sysServices OBJECT-TYPE
  SYNTAX      INTEGER (0..127)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
          "A value which indicates the set of services that this
          entity may potentially offer.  The value is a sum.



          This sum initially takes the value zero. Then, for
          each layer, L, in the range 1 through 7, that this node
          performs transactions for, 2 raised to (L - 1) is added
          to the sum.  For example, a node which performs only
          routing functions would have a value of 4 (2^(3-1)).
          In contrast, a node which is a host offering application
          services would have a value of 72 (2^(4-1) + 2^(7-1)).
          Note that in the context of the Internet suite of
          protocols, values should be calculated accordingly:

              layer      functionality
                1        physical (e.g., repeaters)
                2        datalink/subnetwork (e.g., bridges)
                3        internet (e.g., supports the IP)
                4        end-to-end  (e.g., supports the TCP)
                7        applications (e.g., supports the SMTP)

          For systems including OSI protocols, layers 5 and 6
          may also be counted."
  ::= { system 7 }

-- object resource information
--
-- a collection of objects which describe the SNMP entity's
-- (statically and dynamically configurable) support of
-- various MIB modules.

sysORLastChange OBJECT-TYPE
  SYNTAX      TimeStamp
```

```
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "The value of sysUpTime at the time of the most recent
        change in state or value of any instance of sysORID."
  ::= { system 8 }

sysORTable OBJECT-TYPE
  SYNTAX     SEQUENCE OF SysOREntry
  MAX-ACCESS not-accessible
  STATUS     current
   DESCRIPTION
        "The (conceptual) table listing the capabilities of
        the local SNMP application acting as a command
        responder with respect to various MIB modules.
        SNMP entities having dynamically-configurable support
        of MIB modules will have a dynamically-varying number
        of conceptual rows."
  ::= { system 9 }



sysOREntry OBJECT-TYPE
  SYNTAX     SysOREntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
        "An entry (conceptual row) in the sysORTable."
  INDEX      { sysORIndex }
  ::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {
  sysORIndex     INTEGER,
  sysORID        OBJECT IDENTIFIER,
  sysORDescr     DisplayString,
  sysORUpTime    TimeStamp
}

sysORIndex OBJECT-TYPE
  SYNTAX     INTEGER (1..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
        "The auxiliary variable used for identifying instances
        of the columnar
 objects in the sysORTable."
  ::= { sysOREntry 1 }
```

```
sysORID OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "An authoritative identification of a capabilities
        statement with respect to various MIB modules supported
        by the local SNMP application acting as a command
        responder."
  ::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE
  SYNTAX     DisplayString
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "A textual description of the capabilities identified
        by the corresponding instance of sysORID."
  ::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE
  SYNTAX     TimeStamp
  MAX-ACCESS read-only




  STATUS     current
  DESCRIPTION
        "The value of sysUpTime at the time this conceptual
        row was last instantiated."
  ::= { sysOREntry 4 }


-- the SNMP group
--
-- a collection of objects providing basic instrumentation
 and
-- control of an SNMP entity.

snmp     OBJECT IDENTIFIER ::= { mib-2 11 }

snmpInPkts OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "The total number of messages delivered to the SNMP
        entity from the transport service."
```

::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of SNMP messages which were delivered to the SNMP entity and were for an unsupported SNMP version."
::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which used an SNMP community name not known to said entity. Also, implementations which authenticate community-based SNMP messages using check(s) in addition to matching the community name (for example, by also checking whether the message originated from a transport address allowed to use a specified community name) MAY include in this value the number of messages which failed the additional check(s). It is strongly RECOMMENDED that

the documentation for any security model which is used to authenticate community-based SNMP messages specify the precise conditions that contribute to this value."
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of community-based SNMP messages (for example, SNMPv1) delivered to the SNMP entity which represented an SNMP operation that was not allowed for the SNMP community named in the message. The precise conditions under which this counter is incremented (if at all) depend on how the SNMP entity implements its access control mechanism and how its applications interact with that access control mechanism. It is

strongly RECOMMENDED that the documentation for any
access control mechanism which is used to control access
to and visibility of MIB instrumentation specify the
precise conditions that contribute to this value."
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of ASN.1 or BER errors encountered by
the SNMP entity when decoding received SNMP messages."
::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE
SYNTAX INTEGER { enabled(1), disabled(2) }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Indicates whether the
SNMP entity is permitted to
generate authenticationFailure traps. The value of this
object overrides any configuration information; as such,
it provides a means whereby all authenticationFailure
traps may be disabled.

Note that it is strongly recommended that this object
be stored in non-volatile memory so that it remains
constant across re-initializations of the network
management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of Confirmed Class PDUs (such as
GetRequest-PDUs, GetNextRequest-PDUs,
GetBulkRequest-PDUs, SetRequest-PDUs, and
InformRequest-PDUs) delivered to the SNMP entity which
were silently dropped because the size of a reply
containing an alternate Response Class PDU (such as a

```
  Response-PDU) with an empty variable-bindings field
        was greater than either a local constraint or the
        maximum message size associated with the originator of
        the request."
  ::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "The total number of Confirmed Class PDUs
        (such as GetRequest-PDUs, GetNextRequest-PDUs,
        GetBulkRequest-PDUs, SetRequest-PDUs, and
        InformRequest-PDUs) delivered to the SNMP entity which
        were silently dropped because the transmission of
        the (possibly translated) message to a proxy target
        failed in a manner (other than a time-out) such that
        no Response Class PDU (such as a Response-PDU) could
        be returned."
  ::= { snmp 32 }

-- information for notifications
--
-- a collection of objects which allow the SNMP entity, when
-- supporting a notification
 originator application,
-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap      OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS accessible-for-notify
  STATUS     current
  DESCRIPTION




        "The authoritative identification of the notification
        currently being sent.  This variable occurs as
        the second varbind in every SNMPv2-Trap-PDU and
        InformRequest-PDU."
  ::= { snmpTrap 1 }

--  ::= { snmpTrap 2 }   this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
```

```
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS accessible-for-notify
  STATUS     current
  DESCRIPTION
          "The authoritative identification of the enterprise
          associated with the trap currently being sent.  When an
          SNMP proxy agent is mapping an RFC1157 Trap-PDU
          into a SNMPv2-Trap-PDU, this variable occurs as the
          last varbind."
  ::= { snmpTrap
 3 }

--  ::= { snmpTrap 4 }   this OID is obsolete


-- well-known traps

snmpTraps      OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
          "A coldStart trap signifies that the SNMP entity,
          supporting a notification originator application, is
          reinitializing itself and that its configuration may
          have been altered."
  ::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
          "A warmStart trap signifies that the SNMP entity,
          supporting a notification originator application,
          is reinitializing itself such that its configuration
          is unaltered."
  ::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }
-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }
-- are defined in RFC 2863 [RFC2863]



authenticationFailure NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
          "An
```

```
 authenticationFailure trap signifies that the SNMP
         entity has received a protocol message that is not
         properly authenticated.  While all implementations
         of SNMP entities MAY be capable of generating this
         trap, the snmpEnableAuthenTraps object indicates
         whether this trap will be generated."
  ::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined
-- as { snmpTraps 6 } in RFC 1213

-- the set group
--
-- a collection of objects which allow several cooperating
-- command generator applications to coordinate their use of the
-- set operation.

snmpSet       OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE
  SYNTAX     TestAndIncr
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
         "An advisory lock used to allow several cooperating
         command generator applications to coordinate their
         use of the SNMP set operation.

         This
 object is used for coarse-grain coordination.
         To achieve fine-grain coordination, one or more similar
         objects might be defined within each MIB group, as
         appropriate."
  ::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
           OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
           OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups  OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

-- compliance statements
```

```
--    ::= { snmpMIBCompliances 1 }      this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
  STATUS  deprecated
  DESCRIPTION
          "The compliance statement for SNMPv2 entities which
          implement the SNMPv2 MIB.

          This compliance statement is replaced by
          snmpBasicComplianceRev2."
  MODULE  -- this module
     MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                        snmpBasicNotificationsGroup }

     GROUP   snmpCommunityGroup
      DESCRIPTION
          "This group is mandatory for SNMPv2 entities which
          support community-based authentication."

  ::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE
  STATUS  current
  DESCRIPTION
          "The compliance statement for SNMP entities which
          implement this MIB module."
  MODULE  -- this module
     MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                        snmpBasicNotificationsGroup }

     GROUP   snmpCommunityGroup
     DESCRIPTION
          "This group is mandatory for SNMP entities which
          support community-based authentication."

     GROUP   snmpWarmStartNotificationGroup
     DESCRIPTION
          "This group is mandatory for an SNMP entity which
          supports command responder applications, and is
          able to reinitialize itself such that its
          configuration is unaltered."

  ::= { snmpMIBCompliances
 3 }

-- units of conformance

--  ::= { snmpMIBGroups 1 }          this OID is obsolete
```

```
--  ::= { snmpMIBGroups 2 }          this OID is obsolete
--  ::= { snmpMIBGroups 3 }          this OID is obsolete



--  ::= { snmpMIBGroups 4 }          this OID is obsolete

snmpGroup OBJECT-GROUP
  OBJECTS { snmpInPkts,
            snmpInBadVersions,
            snmpInASNParseErrs,
            snmpSilentDrops,
            snmpProxyDrops,
            snmpEnableAuthenTraps }
  STATUS  current
  DESCRIPTION
          "A collection of objects providing basic instrumentation
          and control of an SNMP entity."
  ::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP
  OBJECTS { snmpInBadCommunityNames,
            snmpInBadCommunityUses }
  STATUS  current
  DESCRIPTION
          "A collection of objects providing basic instrumentation
          of a SNMP entity which supports community-based
          authentication."
  ::= { snmpMIBGroups 9 }

snmpSetGroup
 OBJECT-GROUP
  OBJECTS { snmpSetSerialNo }
  STATUS  current
  DESCRIPTION
          "A collection of objects which allow several cooperating
          command generator applications to coordinate their
          use of the set operation."
  ::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP
  OBJECTS { sysDescr, sysObjectID, sysUpTime,
            sysContact, sysName, sysLocation,
            sysServices,
            sysORLastChange, sysORID,
            sysORUpTime, sysORDescr }
  STATUS  current
  DESCRIPTION
```

```
        "The system group defines objects which are common to all
        managed systems."
  ::= { snmpMIBGroups 6 }

snmpBasicNotificationsGroup NOTIFICATION-GROUP
  NOTIFICATIONS { coldStart, authenticationFailure }



  STATUS       current
  DESCRIPTION
    "The basic notifications implemented by an SNMP entity
     supporting command responder applications."
  ::= { snmpMIBGroups 7 }

snmpWarmStartNotificationGroup
 NOTIFICATION-GROUP
  NOTIFICATIONS { warmStart }
  STATUS       current
  DESCRIPTION
   "An additional notification for an SNMP entity supporting
    command responder applications, if it is able to reinitialize
    itself such that its configuration is unaltered."
 ::= { snmpMIBGroups 11 }

snmpNotificationGroup OBJECT-GROUP
  OBJECTS { snmpTrapOID, snmpTrapEnterprise }
  STATUS  current
  DESCRIPTION
        "These objects are required for entities
        which support notification originator applications."
  ::= { snmpMIBGroups 12 }

-- definitions in RFC 1213 made obsolete by the inclusion of a
-- subset of the snmp group in this MIB

snmpOutPkts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Messages which were
        passed from the SNMP protocol entity to the
        transport service."
  ::= { snmp 2 }

-- { snmp 7 } is not used
```

```
snmpInTooBigs
 OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      obsolete
   DESCRIPTION
         "The total number of SNMP PDUs which were
         delivered to the SNMP protocol entity and for
         which the value of the error-status field was
         `tooBig'."
   ::= { snmp 8 }



snmpInNoSuchNames OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      obsolete
   DESCRIPTION
         "The total number of SNMP PDUs which were
         delivered to the SNMP protocol entity and for
         which the value of the error-status field was
         `noSuchName'."
   ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      obsolete
   DESCRIPTION
         "The total number of SNMP PDUs which were
         delivered to the SNMP protocol entity and for
         which the value of the error-status field was
         `badValue'."
   ::= { snmp 10 }

snmpInReadOnlys
 OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      obsolete
   DESCRIPTION
         "The total number valid SNMP PDUs which were delivered
         to the SNMP protocol entity and for which the value
         of the error-status field was `readOnly'.  It should
         be noted that it is a protocol error to generate an
         SNMP PDU which contains the value `readOnly' in the
         error-status field, as such this object is provided
```

```
        as a means of detecting incorrect implementations of
        the SNMP."
    ::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP PDUs which were delivered
        to the SNMP protocol entity and for which the value
        of the error-status field was `genErr'."
    ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE



    SYNTAX      Counter32
     MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of MIB objects which have been
        retrieved successfully by the SNMP protocol entity
        as the result of receiving valid SNMP Get-Request
        and Get-Next PDUs."
    ::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of MIB objects which have been
        altered successfully by the SNMP protocol entity as
        the result of receiving valid SNMP Set-Request PDUs."
    ::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
    ::= { snmp 15 }
```

```
snmpInGetNexts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS
 read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have been
        accepted and processed by the SNMP protocol entity."
  ::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 17 }



snmpInGetResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 18 }

snmpInTraps OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have been
        accepted and
 processed by the SNMP protocol entity."
  ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were generated
```

```
        by the SNMP protocol entity and for which the value
        of the error-status field was `tooBig.'"
    ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status was `noSuchName'."
    ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status field was
   `badValue'."
    ::= { snmp 22 }



-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status field was `genErr'."
    ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been generated by the SNMP protocol entity."
    ::= { snmp 25 }
```

```
snmpOutGetNexts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have
        been generated by the SNMP protocol entity."
  ::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
   STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 28 }




snmpOutTraps OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been generated by the SNMP protocol entity."
  ::= { snmp 29 }

snmpObsoleteGroup OBJECT-GROUP
  OBJECTS { snmpOutPkts, snmpInTooBigs, snmpInNoSuchNames,
            snmpInBadValues, snmpInReadOnlys, snmpInGenErrs,
            snmpInTotalReqVars, snmpInTotalSetVars,
            snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,

    snmpInGetResponses, snmpInTraps, snmpOutTooBigs,
            snmpOutNoSuchNames, snmpOutBadValues,
            snmpOutGenErrs, snmpOutGetRequests, snmpOutGetNexts,
```

```
          snmpOutSetRequests, snmpOutGetResponses, snmpOutTraps
          }
  STATUS  obsolete
  DESCRIPTION
        "A collection of objects from RFC 1213 made obsolete
        by this MIB module."
  ::= { snmpMIBGroups 10 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB
No license file was found, but licenses were detected in source scan.

```
SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  -- OBJECT-IDENTITY,
  experimental, Integer32
     FROM SNMPv2-SMI
  TEXTUAL-CONVENTION
     FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP
     FROM SNMPv2-CONF
  usmUserEntry
     FROM SNMP-USER-BASED-SM-MIB
  SnmpAdminString
     FROM SNMP-FRAMEWORK-MIB;

snmpUsmDHObjectsMIB MODULE-IDENTITY
  LAST-UPDATED "200003060000Z"  -- 6 March 2000, Midnight
  ORGANIZATION "Excite@Home"
  CONTACT-INFO "Author: Mike StJohns
               Postal: Excite@Home
                    450 Broadway
                    Redwood City, CA 94063
               Email:  stjohns@corp.home.net
               Phone:  +1-650-556-5368"

  DESCRIPTION
     "The management information definitions for providing forward
  secrecy for key changes for the usmUserTable, and for providing a
  method
 for 'kickstarting' access to the agent via a Diffie-Helman
  key agreement."

  REVISION     "200003060000Z"
```

```
  DESCRIPTION
    "Initial version published as RFC 2786."


  ::= { experimental 101 }  -- IANA DHKEY-CHANGE 101

-- Administrative assignments

usmDHKeyObjects OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 1 }
usmDHKeyConformance OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 2 }

-- Textual conventions

DHKeyChange ::=         TEXTUAL-CONVENTION
  STATUS            current
  DESCRIPTION
     "Upon initialization, or upon creation of a row containing an
  object of this type, and after any successful SET of this value, a
  GET of this value returns 'y' where y = g^xa MOD p, and where g is
  the base from usmDHParameters, p is the prime from
  usmDHParameters, and xa is a new random integer selected by the
  agent in the interval 2^(l-1) <= xa < 2^l < p-1.  'l' is the
  optional privateValueLength from usmDHParameters in bits.  If 'l'
  is omitted,
 then xa (and xr below) is selected in the interval 0
  <= xa < p-1.  y is expressed as an OCTET STRING 'PV' of length 'k'
  which satisfies

          k
      y =  SUM   2^(8(k-i)) PV'i
          i=1

      where PV1,...,PVk are the octets of PV from first to last, and
      where PV1 <> 0.

  A successful SET consists of the value 'y' expressed as an OCTET
  STRING as above concatenated with the value 'z'(expressed as an
  OCTET STRING in the same manner as y) where z = g^xr MOD p, where
  g, p and l are as above, and where xr is a new random integer
  selected by the manager in the interval 2^(l-1) <= xr < 2^l <
  p-1. A SET to an object of this type will fail with the error
  wrongValue if the current 'y' does not match the 'y' portion of
  the value of the varbind for the object. (E.g. GET yout, SET
  concat(yin, z), yout <> yin).

  Note that the private values xa and xr are never transmitted from
  manager to device or vice versa, only the values
```

```
 y and z.
   Obviously, these values must be retained until a successful SET on
   the associated object.

   The shared secret 'sk' is calculated at the agent as sk = z^xa MOD
   p, and at the manager as sk = y^xr MOD p.

   Each object definition of this type MUST describe how to map from
   the shared secret 'sk' to the operational key value used by the
   protocols and operations related to the object.  In general, if n
   bits of key are required, the author suggests using the n
   right-most bits of the shared secret as the operational key value."
   REFERENCE
      "-- Diffie-Hellman Key-Agreement Standard, PKCS #3;
         RSA Laboratories, November 1993"
   SYNTAX             OCTET STRING

-- Diffie Hellman public values

usmDHPublicObjects      OBJECT IDENTIFIER ::= { usmDHKeyObjects 1 }

usmDHParameters OBJECT-TYPE
   SYNTAX  OCTET STRING
   MAX-ACCESS read-write
   STATUS  current
   DESCRIPTION
      "The public Diffie-Hellman parameters for doing
 a Diffie-Hellman
   key agreement for this device.  This is encoded as an ASN.1
   DHParameter per PKCS #3, section 9.  E.g.

      DHParameter ::= SEQUENCE {
         prime   INTEGER,   -- p
         base    INTEGER,   -- g
         privateValueLength  INTEGER OPTIONAL }


   Implementors are encouraged to use either the values from
   Oakley Group 1  or the values of from Oakley Group 2 as specified
   in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the
   default for this object.  Other values may be used, but the
   security properties of those values MUST be well understood and
   MUST meet the requirements of PKCS #3 for the selection of
   Diffie-Hellman primes.

      In addition, any time usmDHParameters changes, all values of
   type DHKeyChange will change and new random numbers MUST be
   generated by the agent for each DHKeyChange object."
```

```
  REFERENCE
     "-- Diffie-Hellman Key-Agreement Standard, PKCS #3,
        RSA Laboratories,
 November 1993
      -- The Internet Key Exchange, RFC 2409, November 1998,
        Sec 6.1, 6.2"
  ::= { usmDHPublicObjects 1 }

usmDHUserKeyTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF UsmDHUserKeyEntry
  MAX-ACCESS not-accessible
  STATUS  current
  DESCRIPTION
     "This table augments and extends the usmUserTable and provides
  4 objects which exactly mirror the objects in that table with the
  textual convention of 'KeyChange'.  This extension allows key
  changes to be done in a manner where the knowledge of the current
  secret plus knowledge of the key change data exchanges (e.g. via
  wiretapping)  will not reveal the new key."
  ::= { usmDHPublicObjects 2 }

usmDHUserKeyEntry OBJECT-TYPE
  SYNTAX  UsmDHUserKeyEntry
  MAX-ACCESS not-accessible
  STATUS  current
  DESCRIPTION
     "A row of DHKeyChange objects which augment or replace the
  functionality of the KeyChange objects in the base table row."
  AUGMENTS { usmUserEntry }
   ::= {usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {
     usmDHUserAuthKeyChange          DHKeyChange,
  usmDHUserOwnAuthKeyChange   DHKeyChange,
     usmDHUserPrivKeyChange          DHKeyChange,
     usmDHUserOwnPrivKeyChange       DHKeyChange
     }

usmDHUserAuthKeyChange OBJECT-TYPE
  SYNTAX  DHKeyChange
  MAX-ACCESS read-create
  STATUS  current
  DESCRIPTION
     "The object used to change any given user's Authentication Key
  using a Diffie-Hellman key exchange.

  The right-most n bits of the shared secret 'sk', where 'n' is the
  number of bits required for the protocol defined by
```

usmUserAuthProtocol, are installed as the operational
authentication key for this row after a successful SET."
::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE
SYNTAX DHKeyChange
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The object used to change the agents own Authentication Key
using a Diffie-Hellman
key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the
number of bits required for the protocol defined by
usmUserAuthProtocol, are installed as the operational
authentication key for this row after a successful SET."
::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE
SYNTAX DHKeyChange
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The object used to change any given user's Privacy Key using
a Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the
number of bits required for the protocol defined by
usmUserPrivProtocol, are installed as the operational privacy key
for this row after a successful SET."
::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE
SYNTAX DHKeyChange
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The object used to change the agent's own Privacy Key using a
Diffie-Hellman key exchange.

The right-most n bits of the shared secret 'sk', where 'n' is the
number of bits required for the protocol defined by
usmUserPrivProtocol, are installed as the operational privacy key
for this row after a successful SET."
::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

```
usmDHKickstartTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF UsmDHKickstartEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A table of mappings between zero or more Diffie-Helman key
  agreement values and entries in the usmUserTable.  Entries in this
  table are created by providing the associated device with a
  Diffie-Helman public value and a usmUserName/usmUserSecurityName
  pair during initialization. How these values are provided is
  outside the scope of this MIB, but could be provided manually, or
  through a configuration file.  Valid public value/name pairs
  result
 in the creation of a row in this table as well as the
  creation of an associated row (with keys derived as indicated) in
  the usmUserTable.  The actual access the related usmSecurityName
  has is dependent on the entries in the VACM tables.  In general,
  an implementor will specify one or more standard security names
  and will provide entries in the VACM tables granting various
  levels of access to those names.  The actual content of the VACM
  table is beyond the scope of this MIB.

  Note: This table is expected to be readable without authentication
  using the usmUserSecurityName 'dhKickstart'.  See the conformance
  statements for details."
  ::= { usmDHKickstartGroup 1 }

usmDHKickstartEntry OBJECT-TYPE
  SYNTAX      UsmDHKickstartEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION

     "An entry in the usmDHKickstartTable.  The agent SHOULD either
  delete this entry or mark it as inactive upon a successful SET of
   any of the KeyChange-typed objects in the usmUserEntry or upon a
  successful SET of any of the DHKeyChange-typed objects in the
  usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of
  usmUserTable or row of ushDhKeyChangeTable) equals this entry's
  usmDhKickstartSecurityName.  In otherwords, once you've changed
  one or more of the keys for a row in usmUserTable with a
  particular security name, the row in this table with that same
  security name is no longer useful or meaningful."

  INDEX   { usmDHKickstartIndex }
  ::= {usmDHKickstartTable 1 }
```

```
UsmDHKickstartEntry ::= SEQUENCE  {
      usmDHKickstartIndex     Integer32,
      usmDHKickstartMyPublic  OCTET STRING,
      usmDHKickstartMgrPublic OCTET STRING,
      usmDHKickstartSecurityName      SnmpAdminString
      }

usmDHKickstartIndex OBJECT-TYPE
  SYNTAX      Integer32  (1..2147483647)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "Index value for
 this row."
  ::= { usmDHKickstartEntry 1 }

usmDHKickstartMyPublic OBJECT-TYPE
  SYNTAX      OCTET STRING
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The agent's Diffie-Hellman public value for this row.  At
  initialization, the agent generates a random number and derives
  its public value from that number.  This public value is published
  here.  This public value 'y' equals g^r MOD p where g is the from
  the set of Diffie-Hellman parameters, p is the prime from those
  parameters, and r is a random integer selected by the agent in the
  interval 2^(l-1) <= r < p-1 < 2^l.  If l is unspecified, then r is
  a random integer selected in the interval 0 <= r < p-1

  The public value is expressed as an OCTET STRING 'PV' of length
  'k' which satisfies

          k
      y =  SUM   2^(8(k-i)) PV'i
          i = 1

      where PV1,...,PVk are the octets of PV from first to last, and
      where PV1 != 0.


  The following
 DH parameters (Oakley group #2, RFC 2409, sec 6.1,
  6.2) are used for this object:

  g = 2
  p = FFFFFFFF FFFFFFFF C90FDAA2 2168C234 C4C6628B 80DC1CD1
      29024E08 8A67CC74 020BBEA6 3B139B22 514A0879 8E3404DD
```

```
    EF9519B3 CD3A431B 302B0A6D F25F1437 4FE1356D 6D51C245
    E485B576 625E7EC6 F44C42E9 A637ED6B 0BFF5CB6 F406B7ED
    EE386BFB 5A899FA5 AE9F2411 7C4B1FE6 49286651 ECE65381
    FFFFFFFF FFFFFFFF
  l=1024
  "
  REFERENCE
    "-- Diffie-Hellman Key-Agreement Standard, PKCS#3v1.4;
       RSA Laboratories, November 1993
     -- The Internet Key Exchange, RFC2409;
       Harkins, D., Carrel, D.; November 1998"
  ::= { usmDHKickstartEntry 2 }

usmDHKickstartMgrPublic OBJECT-TYPE
  SYNTAX      OCTET STRING
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION

    "The manager's Diffie-Hellman public value for this row.  Note
  that this value is not set via the SNMP agent, but may be set via
  some out of band
 method, such as the device's configuration file.
  The manager calculates this value in the same manner and using the
  same parameter set as the agent does.  E.g. it selects a random
  number 'r', calculates y = g^r mod p and provides 'y' as the
  public number expressed as an OCTET STRING.  See
  usmDHKickstartMyPublic for details.

  When this object is set with a valid value during initialization,
  a row is created in the usmUserTable with the following values:

  usmUserEngineID            localEngineID
  usmUserName                [value of usmDHKickstartSecurityName]
  usmUserSecurityName        [value of usmDHKickstartSecurityName]
  usmUserCloneFrom           ZeroDotZero
  usmUserAuthProtocol        usmHMACMD5AuthProtocol
  usmUserAuthKeyChange       -- derived from set value
  usmUserOwnAuthKeyChange    -- derived from set value
  usmUserPrivProtocol        usmDESPrivProtocol
  usmUserPrivKeyChange       -- derived from set value
   usmUserOwnPrivKeyChange   -- derived from set value
  usmUserPublic              "
  usmUserStorageType         permanent
  usmUserStatus              active

  A shared secret 'sk' is calculated at the agent as sk =
  mgrPublic^r mod p where r is the agents random number and p is the
```

```
    DH prime from the common parameters.  The underlying privacy key
    for this row is derived from sk by applying the key derivation
    function PBKDF2 defined in PKCS#5v2.0 with a salt of 0xd1310ba6,
    and iterationCount of 500, a keyLength of 16 (for
    usmDESPrivProtocol), and a prf (pseudo random function) of
    'id-hmacWithSHA1'.  The underlying authentication key for this row
    is derived from sk by applying the key derivation function PBKDF2
    with a salt of 0x98dfb5ac , an interation count of 500, a
    keyLength of 16 (for usmHMAC5AuthProtocol), and a prf of
    'id-hmacWithSHA1'.  Note: The salts are the first two words in the
    ks0 [key schedule 0] of the BLOWFISH
   cipher from 'Applied
    Cryptography' by Bruce Schnier - they could be any relatively
    random string of bits.

    The manager can use its knowledge of its own random number and the
    agent's public value to kickstart its access to the agent in a
    secure manner.  Note that the security of this approach is
    directly related to the strength of the authorization security of
    the out of band provisioning of the managers public value
    (e.g. the configuration file), but is not dependent at all on the
    strength of the confidentiality of the out of band provisioning
    data."
    REFERENCE
        "-- Password-Based Cryptography Standard, PKCS#5v2.0;
           RSA Laboratories, March 1999
         -- Applied Cryptography, 2nd Ed.; B. Schneier,
           Counterpane Systems; John Wiley & Sons, 1996"
    ::= { usmDHKickstartEntry 3 }

usmDHKickstartSecurityName OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The usmUserName and usmUserSecurityName in the usmUserTable
    associated with this row.  This is provided in the same manner and
    at the same time as the usmDHKickstartMgrPublic value -
    e.g. possibly manually, or via the device's configuration file."
    ::= { usmDHKickstartEntry 4 }

-- Conformance Information

usmDHKeyMIBCompliances  OBJECT IDENTIFIER ::= { usmDHKeyConformance 1 }
usmDHKeyMIBGroups       OBJECT IDENTIFIER ::= { usmDHKeyConformance 2 }

-- Compliance statements
```

```
usmDHKeyMIBCompliance   MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
    "The compliance statement for this module."
  MODULE
    GROUP usmDHKeyMIBBasicGroup
    DESCRIPTION
    "This group MAY be implemented by any agent which
    implements the usmUserTable and which wishes to provide the
    ability to change user and agent authentication and privacy
    keys via Diffie-Hellman key exchanges."

    GROUP usmDHKeyParamGroup
    DESCRIPTION
       "This group MUST be implemented by any agent which
    implements a MIB containing the DHKeyChange Textual
    Convention defined in this module."

    GROUP usmDHKeyKickstartGroup
    DESCRIPTION
      "This group MAY be implemented by any agent which
    implements the usmUserTable and which wishes the ability to
    populate the USM table based on out-of-band provided DH
    ignition values.
       Any agent implementing this group is expected to provide
    preinstalled entries in the vacm tables as follows:

       In the usmUserTable: This entry allows access to the
    system and dhKickstart groups

    usmUserEngineID        localEngineID
    usmUserName            'dhKickstart'
    usmUserSecurityName    'dhKickstart'
    usmUserCloneFrom       ZeroDotZero
    usmUserAuthProtocol    none
    usmUserAuthKeyChange   "
    usmUserOwnAuthKeyChange "
    usmUserPrivProtocol
   none
    usmUserPrivKeyChange   "
    usmUserOwnPrivKeyChange "
    usmUserPublic          "
    usmUserStorageType     permanent
    usmUserStatus          active

      In the vacmSecurityToGroupTable: This maps the initial
    user into the accessible objects.
```

vacmSecurityModel 3 (USM)
vacmSecurityName 'dhKickstart'
vacmGroupName 'dhKickstart'
vacmSecurityToGroupStorageType permanent
vacmSecurityToGroupStatus active

In the vacmAccessTable: Group name to view name translation.

vacmGroupName 'dhKickstart'
vacmAccessContextPrefix ''
vacmAccessSecurityModel 3 (USM)
vacmAccessSecurityLevel noAuthNoPriv
vacmAccessContextMatch exact
vacmAccessReadViewName 'dhKickRestricted'
vacmAccessWriteViewName ''
vacmAccessNotifyViewName
'dhKickRestricted'
vacmAccessStorageType permanent
vacmAccessStatus active

In the vacmViewTreeFamilyTable: Two entries to allow the
initial entry to access the system and kickstart groups.

vacmViewTreeFamilyViewName 'dhKickRestricted'
vacmViewTreeFamilySubtree 1.3.6.1.2.1.1 (system)
vacmViewTreeFamilyMask ''
vacmViewTreeFamilyType 1
vacmViewTreeFamilyStorageType permanent
vacmViewTreeFamilyStatus active

vacmViewTreeFamilyViewName 'dhKickRestricted'
vacmViewTreeFamilySubtree (usmDHKickstartTable OID)
vacmViewTreeFamilyMask ''
vacmViewTreeFamilyType 1
vacmViewTreeFamilyStorageType permanent
vacmViewTreeFamilyStatus active
"

OBJECT usmDHParameters
MIN-ACCESS read-only
DESCRIPTION
"It
is compliant to implement this object as read-only for
any device."

::= { usmDHKeyMIBCompliances 1 }

-- Units of Compliance

```
usmDHKeyMIBBasicGroup OBJECT-GROUP
  OBJECTS     {
                usmDHUserAuthKeyChange,
                usmDHUserOwnAuthKeyChange,
                usmDHUserPrivKeyChange,
                usmDHUserOwnPrivKeyChange
              }
  STATUS      current
  DESCRIPTION
      ""
  ::= { usmDHKeyMIBGroups 1 }

usmDHKeyParamGroup OBJECT-GROUP
  OBJECTS     {
                usmDHParameters
              }
  STATUS      current
  DESCRIPTION
      "The mandatory object for all MIBs which use the DHKeyChange
  textual convention."
  ::= { usmDHKeyMIBGroups 2 }

usmDHKeyKickstartGroup OBJECT-GROUP
  OBJECTS     {
                usmDHKickstartMyPublic,
                usmDHKickstartMgrPublic,
                usmDHKickstartSecurityName
              }
  STATUS      current
  DESCRIPTION
      "The objects used
 for kickstarting one or more SNMPv3 USM
  associations via a configuration file or other out of band,
  non-confidential access."
  ::= { usmDHKeyMIBGroups 3 }


END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB
No license file was found, but licenses were detected in source scan.

DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,
```

```
  Integer32, NOTIFICATION-TYPE
  FROM SNMPv2-SMI
  -- from [RFC2578]
TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

  FROM SNMPv2-TC
  -- from [RFC2579]
CounterBasedGauge64
  FROM HCNUM-TC
  -- from [RFC2856]
ifIndex
  FROM IF-MIB
  -- from [RFC2863]
MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
  FROM SNMPv2-CONF;



  -- from [RFC2580]

dot3OamMIB MODULE-IDENTITY
  LAST-UPDATED "200706140000Z"  -- June 14,2007"
  ORGANIZATION
    "IETF Ethernet Interfaces and Hub MIB Working Group"
  CONTACT-INFO
    "WG Charter:
     http://www.ietf.org/html.charters/hubmib-charter.html
    Mailing lists:
     General Discussion: hubmib@ietf.org
     To Subscribe: hubmib-requests@ietf.org
     In Body: subscribe your_email_address
    Chair: Bert Wijnen
     Alcatel-Lucent
     Email: bwijnen at alcatel-lucent dot com
   Editor: Matt Squire
     Hatteras Networks
     E-mail: msquire at hatterasnetworks dot com
    "
  DESCRIPTION
    "The MIB module for managing the new Ethernet OAM features
    introduced by the Ethernet in the First Mile taskforce (IEEE
    802.3ah).  The functionality presented here is based on IEEE
    802.3ah [802.3ah], released in October, 2004.  [802.3ah] was
    prepared as an addendum to the standing version of IEEE 802.3
    [802.3-2002].  Since then, [802.3ah] has been
    merged into the base IEEE 802.3 specification in [802.3-2005].

    In particular, this MIB focuses on the new OAM functions
```

introduced in Clause 57 of [802.3ah]. The OAM functionality
of Clause 57 is controlled by new management attributes
introduced in Clause 30 of [802.3ah]. The OAM functions are
not specific to any particular Ethernet
physical layer, and
can be generically applied to any Ethernet interface of
[802.3-2002].

An Ethernet OAM protocol data unit is a valid Ethernet frame
with a destination MAC address equal to the reserved MAC
address for Slow Protocols (See 43B of [802.3ah]), a
lengthOrType field equal to the reserved type for Slow
Protocols, and a Slow Protocols subtype equal to that of the
subtype reserved for Ethernet OAM. OAMPDU is used throughout
this document as an abbreviation for Ethernet OAM protocol
data unit.

The following reference is used throughout this MIB module:

[802.3ah] refers to:
IEEE Std 802.3ah-2004: 'Draft amendment to -
Information technology - Telecommunications and
information exchange between systems - Local and
metropolitan area networks - Specific requirements - Part
3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications
- Media Access Control Parameters, Physical Layers and
Management Parameters for subscriber access networks',
October 2004.

[802.3-2002] refers to:
IEEE Std 802.3-2002:
'Information technology - Telecommunications and
information exchange between systems - Local and
metropolitan area networks - Specific requirements - Part
3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications
- Media Access Control Parameters, Physical Layers and
Management Parameters for subscriber access networks',
March 2002.

[802.3-2005] refers to:
IEEE Std 802.3-2005:
'Information technology - Telecommunications and
information exchange between systems - Local and

```
        metropolitan area networks
- Specific requirements - Part
        3: Carrier sense multiple access with collision detection
        (CSMA/CD) access method and physical layer specifications
        - Media Access Control Parameters, Physical Layers and
        Management Parameters for subscriber access networks',
        December 2005.

       [802-2001] refers to:
        'IEEE Standard for LAN/MAN (Local Area
        Network/Metropolitan Area Network): Overview and
        Architecture', IEEE 802, June 2001.

    Copyright (c) The IETF Trust (2007).  This version of
    this MIB module is part of RFC 4878; See the RFC itself for
    full legal notices. "

  REVISION    "200706140000Z"  -- June 14, 2007"
  DESCRIPTION "Initial version, published as RFC 4878."
   ::= { mib-2 158 }

--
-- Sections of the Ethernet OAM MIB




--
   dot3OamNotifications OBJECT IDENTIFIER ::= { dot3OamMIB 0 }
   dot3OamObjects       OBJECT IDENTIFIER ::= { dot3OamMIB 1 }

  dot3OamConformance   OBJECT IDENTIFIER ::= { dot3OamMIB 2 }

--
-- Textual conventions for the OAM MIB
--
EightOTwoOui ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
    "24-bit Organizationally Unique Identifier.  Information on
    OUIs can be found in IEEE 802-2001 [802-2001], Clause 9."
  SYNTAX       OCTET STRING(SIZE(3))

-- ****************************************************************
--
-- Ethernet OAM Control group
--

dot3OamTable OBJECT-TYPE
```

```
  SYNTAX      SEQUENCE OF Dot3OamEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the primary controls and status for the
    OAM capabilities of an Ethernet-like interface.  There will be
    one row in this table for each Ethernet-like interface in the
    system that supports the OAM functions defined in [802.3ah].
    "
  ::= { dot3OamObjects 1 }

dot3OamEntry OBJECT-TYPE
  SYNTAX     Dot3OamEntry
   MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "An entry in the table that contains information on the
    Ethernet OAM function for a single Ethernet like interface.
    Entries in the table are created automatically for each
    interface supporting Ethernet OAM.  The status of the row
    entry can be determined from dot3OamOperStatus.

    A dot3OamEntry is indexed in the dot3OamTable by the ifIndex
    object of the Interfaces MIB.
    "
  INDEX       { ifIndex }
  ::= { dot3OamTable 1 }



Dot3OamEntry ::=
  SEQUENCE {
    dot3OamAdminState               INTEGER,
    dot3OamOperStatus               INTEGER,
    dot3OamMode                     INTEGER,
    dot3OamMaxOamPduSize            Unsigned32,
    dot3OamConfigRevision           Unsigned32,
    dot3OamFunctionsSupported       BITS
  }

dot3OamAdminState OBJECT-TYPE
  SYNTAX      INTEGER {
                enabled(1),
                disabled(2)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
```

"This object is used to provision the default administrative
OAM mode for this interface. This object represents the
desired state of OAM for this interface.

The dot3OamAdminState always starts in the disabled(2) state
until an explicit management action or configuration
information retained by the system causes a transition to the
enabled(1) state. When enabled(1), Ethernet OAM will attempt
to operate over this interface.
"
REFERENCE "[802.3ah], 30.3.6.1.2"
::= { dot3OamEntry 1 }

dot3OamOperStatus OBJECT-TYPE
SYNTAX INTEGER {
disabled(1),
linkFault(2),
passiveWait(3),
activeSendLocal(4),
sendLocalAndRemote(5),
sendLocalAndRemoteOk(6),
oamPeeringLocallyRejected(7),
oamPeeringRemotelyRejected(8),
operational(9),
nonOperHalfDuplex(10)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"At initialization and failure conditions, two OAM entities on

the same full-duplex Ethernet link begin a discovery phase to
determine what OAM capabilities may be used on that link. The
progress of this initialization is controlled by the OA
sublayer.

This value is always disabled(1) if OAM is disabled on this
interface via the dot3OamAdminState.

If the link has detected a fault and is transmitting OAMPDUs
with a link fault indication, the value is linkFault(2).
Also, if the interface is not operational (ifOperStatus is
not up(1)), linkFault(2) is returned. Note that the object
ifOperStatus may not be up(1) as a result of link failure or
administrative

action (ifAdminState being down(2) or
testing(3)).

The passiveWait(3) state is returned only by OAM entities in passive mode (dot3OamMode) and reflects the state in which the OAM entity is waiting to see if the peer device is OA capable. The activeSendLocal(4) value is used by active mode devices (dot3OamMode) and reflects the OAM entity actively trying to discover whether the peer has OAM capability but has not yet made that determination.

The state sendLocalAndRemote(5) reflects that the local OA entity has discovered the peer but has not yet accepted or rejected the configuration of the peer. The local device can, for whatever reason, decide that the peer device is unacceptable and decline OAM peering. If the local OAM entity rejects the peer OAM entity, the state becomes oamPeeringLocallyRejected(7). If the OAM peering is allowed by the local device, the state moves
to
sendLocalAndRemoteOk(6). Note that both the sendLocalAndRemote(5) and oamPeeringLocallyRejected(7) states fall within the state SEND_LOCAL_REMOTE of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the local OAM client has actively rejected the peering or has just not indicated any decision yet. Whether a peering decision has been made is indicated via the local flags field in the OAMPDU (reflected in the aOAMLocalFlagsField of 30.3.6.1.10).

If the remote OAM entity rejects the peering, the state becomes oamPeeringRemotelyRejected(8). Note that both the sendLocalAndRemoteOk(6) and oamPeeringRemotelyRejected(8) states fall within the state SEND_LOCAL_REMOTE_OK of the Discovery state diagram [802.3ah, Figure 57-5], with the difference being whether the remote OAM client has rejected

the peering or has just not yet decided. This
is indicated
via the remote flags field in the OAMPDU (reflected in the aOAMRemoteFlagsField of 30.3.6.1.11).

When the local OAM entity learns that both it and the remote OAM entity have accepted the peering, the state moves to operational(9) corresponding to the SEND_ANY state of the Discovery state diagram [802.3ah, Figure 57-5].

```
    Since Ethernet OAM functions are not designed to work
    completely over half-duplex interfaces, the value
    nonOperHalfDuplex(10) is returned whenever Ethernet OAM is
    enabled (dot3OamAdminState is enabled(1)), but the interface
    is in half-duplex operation.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.4, 30.3.6.1.10, 30.3.6.1.11"
  ::= { dot3OamEntry 2 }

 dot3OamMode OBJECT-TYPE
  SYNTAX      INTEGER {
                passive(1),
                active(2)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "This object configures
the mode of OAM operation for this
    Ethernet-like interface.  OAM on Ethernet interfaces may be in
    'active' mode or 'passive' mode.  These two modes differ in
    that active mode provides additional capabilities to initiate
    monitoring activities with the remote OAM peer entity, while
    passive mode generally waits for the peer to initiate OA
    actions with it.  As an example, an active OAM entity can put
    the remote OAM entity in a loopback state, where a passive OA
    entity cannot.

    The default value of dot3OamMode is dependent on the type of
    system on which this Ethernet-like interface resides.  The
    default value should be 'active(2)' unless it is known that
    this system should take on a subservient role to the other
    device connected over this interface.

    Changing this value results in incrementing the configuration
    revision field of locally generated OAMPDUs (30.3.6.1.12) and
    potentially
re-doing the OAM discovery process if the
    dot3OamOperStatus was already operational(9).
    "
  REFERENCE   "[802.3ah], 30.3.6.1.3"



  ::= { dot3OamEntry 3 }

 dot3OamMaxOamPduSize OBJECT-TYPE
```

```
  SYNTAX      Unsigned32 (64..1518)
  UNITS       "octets"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The largest OAMPDU that the OAM entity supports.  OA
    entities exchange maximum OAMPDU sizes and negotiate to use
    the smaller of the two maximum OAMPDU sizes between the peers.
    This value is determined by the local implementation.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.8"
  ::= { dot3OamEntry 4 }

 dot3OamConfigRevision OBJECT-TYPE
  SYNTAX      Unsigned32(0..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The configuration revision of the OAM entity as reflected in
    the latest OAMPDU sent by the OAM entity.  The config revision
    is used by OAM entities
to indicate that configuration changes
    have occurred, which might require the peer OAM entity to
    re-evaluate whether OAM peering is allowed.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.12"
  ::= { dot3OamEntry 5 }

 dot3OamFunctionsSupported OBJECT-TYPE
  SYNTAX      BITS {
                unidirectionalSupport (0),
                loopbackSupport(1),
                eventSupport(2),
                variableSupport(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The OAM functions supported on this Ethernet-like interface.
    OAM consists of separate functional sets beyond the basic
    discovery process that is always required.  These functional
    groups can be supported independently by any implementation.
    These values are communicated to the peer via the local
    configuration field of Information OAMPDUs.

    Setting 'unidirectionalSupport(0)' indicates that the
OA
```

entity supports the transmission of OAMPDUs on links that are
operating in unidirectional mode (traffic flowing in one
direction only). Setting 'loopbackSupport(1)' indicates that
the OAM entity can initiate and respond to loopback commands.
Setting 'eventSupport(2)' indicates that the OAM entity can
send and receive Event Notification OAMPDUs. Setting
'variableSupport(3)' indicates that the OAM entity can send
and receive Variable Request and Response OAMPDUs.
"
REFERENCE "[802.3ah], 30.3.6.1.6"
::= { dot3OamEntry 6 }

-- **
--
-- Ethernet OAM Peer group
--

dot3OamPeerTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot3OamPeerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains information about the OAM peer for a
particular Ethernet-like interface. OAM entities communicate
with a single OAM peer entity on Ethernet links on which OA
is enabled and operating properly. There is one entry in this
table for each entry in the dot3OamTable for which information
on the peer OAM entity is available.
"
::= { dot3OamObjects 2 }

dot3OamPeerEntry OBJECT-TYPE
SYNTAX Dot3OamPeerEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the table containing information on the peer OA
entity for a single Ethernet-like interface.

Note that there is at most one OAM peer for each Ethernet-like
interface. Entries are automatically created when information
about the OAM peer entity becomes available, and automatically
deleted when the OAM peer entity is no longer in
communication. Peer information is not available when
dot3OamOperStatus is disabled(1), linkFault(2),
passiveWait(3), activeSendLocal(4), or nonOperHalfDuplex(10).

```
    "
  INDEX       { ifIndex }



  ::= { dot3OamPeerTable 1 }

Dot3OamPeerEntry ::=
  SEQUENCE {
    dot3OamPeerMacAddress             MacAddress,
    dot3OamPeerVendorOui              EightOTwoOui,
    dot3OamPeerVendorInfo             Unsigned32,
    dot3OamPeerMode                   INTEGER,
    dot3OamPeerMaxOamPduSize          Unsigned32,
    dot3OamPeerConfigRevision         Unsigned32,
    dot3OamPeerFunctionsSupported     BITS
  }

dot3OamPeerMacAddress OBJECT-TYPE
  SYNTAX      MacAddress
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The MAC address of the peer OAM entity.  The MAC address is
    derived from the most recently received OAMPDU.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.5."
  ::= { dot3OamPeerEntry 1 }

dot3OamPeerVendorOui OBJECT-TYPE
  SYNTAX      EightOTwoOui
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The
OUI of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.  The
    OUI can be used to identify the vendor of the remote OA
    entity.  This value is initialized to three octets of zero
    before any Local Information TLV is received.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.16."
  ::= { dot3OamPeerEntry 2 }

dot3OamPeerVendorInfo OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
    "The Vendor Info of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.
    The semantics of the Vendor Information field is proprietary
    and specific to the vendor (identified by the
    dot3OamPeerVendorOui).  This information could, for example,



    be used to identify a specific product or product family.
    This value is initialized to zero before any Local
    Information TLV is received.
     "
  REFERENCE   "[802.3ah], 30.3.6.1.17."
  ::= { dot3OamPeerEntry 3 }

 dot3OamPeerMode OBJECT-TYPE
  SYNTAX      INTEGER {
                passive(1),
                active(2),
                unknown(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The mode of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.  The
    mode of the peer can be determined from the Configuration
    field in the Local Information TLV of the last Information
    OAMPDU received from the peer.  The value is unknown(3)
    whenever no Local Information TLV has been received.  The
    values of active(2) and passive(1) are returned when a Local
    Information TLV has been received indicating that the peer is
    in active or passive mode, respectively.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.7."
  ::= { dot3OamPeerEntry 4 }

 dot3OamPeerMaxOamPduSize
OBJECT-TYPE
  SYNTAX      Unsigned32 (0 | 64..1518)
  UNITS       "octets"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The maximum size of OAMPDU supported by the peer as reflected
    in the latest Information OAMPDU received with a Local
    Information TLV.  Ethernet OAM on this interface must not use
```

```
    OAMPDUs that exceed this size.  The maximum OAMPDU size can be
    determined from the PDU Configuration field of the Local
    Information TLV of the last Information OAMPDU received from
    the peer.  A value of zero is returned if no Local Information
    TLV has been received.  Otherwise, the value of the OAM peer's
    maximum OAMPDU size is returned in this value.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.9."
  ::= { dot3OamPeerEntry 5 }




 dot3OamPeerConfigRevision OBJECT-TYPE
  SYNTAX      Unsigned32(0..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The
configuration revision of the OAM peer as reflected in
    the latest OAMPDU.  This attribute is changed by the peer
    whenever it has a local configuration change for Ethernet OA
    on this interface.  The configuration revision can be
    determined from the Revision field of the Local Information
    TLV of the most recently received Information OAMPDU with
    a Local Information TLV.  A value of zero is returned if
    no Local Information TLV has been received.
  "
  REFERENCE   "[802.3ah], 30.3.6.1.13."
  ::= { dot3OamPeerEntry 6 }

 dot3OamPeerFunctionsSupported OBJECT-TYPE
  SYNTAX      BITS {
                unidirectionalSupport (0),
                loopbackSupport(1),
                eventSupport(2),
                variableSupport(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The OAM functions supported on this Ethernet-like interface.
    OAM consists of separate functionality
sets above the basic
    discovery process.  This value indicates the capabilities of
    the peer OAM entity with respect to these functions.  This
    value is initialized so all bits are clear.
```

If unidirectionalSupport(0) is set, then the peer OAM entity supports sending OAM frames on Ethernet interfaces when the receive path is known to be inoperable. If loopbackSupport(1) is set, then the peer OAM entity can send and receive OAM loopback commands. If eventSupport(2) is set, then the peer OAM entity can send and receive event OAMPDUs to signal various error conditions. If variableSupport(3) is set, then the peer OAM entity can send and receive variable requests to monitor the attribute value as described in Clause 57 of [802.3ah].

The capabilities of the OAM peer can be determined from the configuration field of the Local Information TLV of the most recently received
Information OAMPDU with a Local Information
TLV. All zeros are returned if no Local Information TLV has

yet been received.
"
REFERENCE "[802.3ah], REFERENCE 30.3.6.1.7."
::= { dot3OamPeerEntry 7 }

-- **
--
-- Ethernet OAM Loopback group
--

dot3OamLoopbackTable OBJECT-TYPE
SYNTAX SEQUENCE OF Dot3OamLoopbackEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table contains controls for the loopback state of the local link as well as indicates the status of the loopback function. There is one entry in this table for each entry in dot3OamTable that supports loopback functionality (where dot3OamFunctionsSupported includes the loopbackSupport bit set).

Loopback can be used to place the remote OAM entity in a state where every received frame (except OAMPDUs) is echoed back

over the same interface on which they were received. In this state, at the remote entity, 'normal' traffic is disabled as only the looped back frames are transmitted on the interface. Loopback is thus an intrusive operation that prohibits normal

```
    data flow and should be used accordingly.
    "
  ::= { dot3OamObjects 3 }

dot3OamLoopbackEntry OBJECT-TYPE
  SYNTAX      Dot3OamLoopbackEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the table, containing information on the loopback
    status for a single Ethernet-like interface.  Entries in the
    table are automatically created whenever the local OAM entity
    supports loopback capabilities.  The loopback status on the
    interface can be determined from the dot3OamLoopbackStatus
    object.
    "
  INDEX       { ifIndex }
  ::= { dot3OamLoopbackTable 1 }

Dot3OamLoopbackEntry ::=



  SEQUENCE {
    dot3OamLoopbackStatus
          INTEGER,
    dot3OamLoopbackIgnoreRx          INTEGER
  }

dot3OamLoopbackStatus OBJECT-TYPE
  SYNTAX      INTEGER {
                -- all values, except where noted, can be read
                -- but cannot be written
                noLoopback (1),

                -- initiatingLoopback can be read or written
                initiatingLoopback (2),
                remoteLoopback (3),

                -- terminatingLoopback can be read or written
                terminatingLoopback (4),
                localLoopback (5),
                unknown (6)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The loopback status of the OAM entity.  This status is
```

determined by a combination of the local parser and multiplexer states, the remote parser and multiplexer states, as well as by the actions of the local OAM client. When operating in normal mode
with no loopback in progress, the
status reads noLoopback(1).

The values initiatingLoopback(2) and terminatingLoopback(4) can be read or written. The other values can only be read - they can never be written. Writing initiatingLoopback causes the local OAM entity to start the loopback process with its peer. This value can only be written when the status is noLoopback(1). Writing the value initiatingLoopback(2) in any other state has no effect. When in remoteLoopback(3), writing terminatingLoopback(4) causes the local OAM entity to initiate the termination of the loopback state. Writing terminatingLoopack(4) in any other state has no effect.

If the OAM client initiates a loopback and has sent a Loopback OAMPDU and is waiting for a response, where the local parser and multiplexer states are DISCARD (see [802.3ah, 57.2.11.1]), the status is 'initiatingLoopback'. In this

case, the local OAM entity has yet to receive any acknowledgment that the remote OAM entity has received its loopback command request.

If the local OAM client knows that the remote OAM entity is in loopback mode (via the remote state information as described in [802.3ah, 57.2.11.1, 30.3.6.1.15]), the status is remoteLoopback(3). If the local OAM client is in the process of terminating the remote loopback [802.3ah, 57.2.11.3, 30.3.6.1.14] with its local multiplexer and parser states in DISCARD, the status is terminatingLoopback(4). If the remote OAM client has put the local OAM entity in loopback mode as indicated by its local parser state, the status is localLoopback(5).

The unknown(6) status indicates that the parser and multiplexer combination is unexpected. This status may be returned if the OAM loopback is in a transition state but should not persist.

```
The values of this attribute correspond to the following
    values of the local and remote parser and multiplexer states.

      value           LclPrsr   LclMux    RmtPrsr   RmtMux
      noLoopback        FWD       FWD       FWD       FWD
      initLoopback    DISCARD   DISCARD     FWD       FWD
      rmtLoopback     DISCARD     FWD       LPBK    DISCARD
      tmtngLoopback   DISCARD   DISCARD     LPBK    DISCARD
      lclLoopback       LPBK    DISCARD   DISCARD     FWD
      unknown           ***   any other combination   ***
    "
  REFERENCE   "[802.3ah], REFERENCE 57.2.11, 30.3.61.14,
    30.3.6.1.15"
  ::= { dot3OamLoopbackEntry 1 }

 dot3OamLoopbackIgnoreRx OBJECT-TYPE
  SYNTAX      INTEGER { ignore(1), process(2) }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "Since OAM loopback is a disruptive operation (user traffic
    does not pass), this attribute provides a mechanism to provide
    controls
over whether received OAM loopback commands are
    processed or ignored.  When the value is ignore(1), received
    loopback commands are ignored.  When the value is process(2),
    OAM loopback commands are processed.  The default value is to
    ignore loopback commands (ignore(1)).
    "
  REFERENCE   "[802.3ah], REFERENCE 57.2.11, 30.3.61.14,
    30.3.6.1.15"
  ::= { dot3OamLoopbackEntry 2 }



 -- ****************************************************************
 --
 -- Ethernet OAM Statistics group
 --

 dot3OamStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF Dot3OamStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains statistics for the OAM function on a
    particular Ethernet-like interface.  There is an entry in the
    table for every entry in the dot3OamTable.
```

```
    The counters in this table are defined as 32-bit entries to
    match the counter size as defined in [802.3ah].
  Given that
    the OA protocol is a slow protocol, the counters increment at
    a slow rate.
    "
  ::= { dot3OamObjects 4 }

 dot3OamStatsEntry OBJECT-TYPE
  SYNTAX      Dot3OamStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the table containing statistics information on
    the Ethernet OAM function for a single Ethernet-like
    interface.  Entries are automatically created for every entry
    in the dot3OamTable.  Counters are maintained across
    transitions in dot3OamOperStatus.
    "
  INDEX       { ifIndex }
  ::= { dot3OamStatsTable 1 }

 Dot3OamStatsEntry ::=
  SEQUENCE {
          dot3OamInformationTx              Counter32,
          dot3OamInformationRx              Counter32,
          dot3OamUniqueEventNotificationTx    Counter32,
          dot3OamUniqueEventNotificationRx    Counter32,
          dot3OamDuplicateEventNotificationTx
Counter32,
          dot3OamDuplicateEventNotificationRx Counter32,
          dot3OamLoopbackControlTx          Counter32,
          dot3OamLoopbackControlRx          Counter32,
          dot3OamVariableRequestTx          Counter32,
          dot3OamVariableRequestRx          Counter32,
          dot3OamVariableResponseTx         Counter32,



          dot3OamVariableResponseRx         Counter32,
          dot3OamOrgSpecificTx              Counter32,
          dot3OamOrgSpecificRx              Counter32,
          dot3OamUnsupportedCodesTx         Counter32,
          dot3OamUnsupportedCodesRx         Counter32,
          dot3OamFramesLostDueToOam         Counter32
         }
```

```
dot3OamInformationTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Information OAMPDUs transmitted on
     this interface.

     Discontinuities of this counter can occur at re-initialization
     of the management system, and at other times as indicated by
     the value of the ifCounterDiscontinuityTime.  "
  REFERENCE   "[802.3ah], 30.3.6.1.20."
  ::= { dot3OamStatsEntry 1 }

dot3OamInformationRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Information OAMPDUs received on this
     interface.

     Discontinuities of this counter can occur at re-initialization
     of the management system, and at other times as indicated by
     the value of the ifCounterDiscontinuityTime.
     "
  REFERENCE   "[802.3ah], 30.3.6.1.21."
  ::= { dot3OamStatsEntry 2 }

dot3OamUniqueEventNotificationTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count
of the number of unique Event OAMPDUs transmitted on
     this interface.  Event Notifications may be sent in duplicate
     to increase the probability of successfully being received,



     given the possibility that a frame may be lost in transit.
     Duplicate Event Notification transmissions are counted by
     dot3OamDuplicateEventNotificationTx.
```

```
    A unique Event Notification OAMPDU is indicated as an Event
    Notification OAMPDU with a Sequence Number field that is
    distinct from the previously transmitted Event Notification
    OAMPDU Sequence Number.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.22."
  ::= { dot3OamStatsEntry 3 }

dot3OamUniqueEventNotificationRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
   STATUS      current
  DESCRIPTION
    "A count of the number of unique Event OAMPDUs received on
    this interface.  Event Notification OAMPDUs may be sent in
    duplicate to increase the probability of successfully being
    received, given the possibility that a frame may be lost in
    transit.  Duplicate Event Notification receptions are counted
    by dot3OamDuplicateEventNotificationRx.

    A unique Event Notification OAMPDU is indicated as an Event
    Notification OAMPDU with a Sequence Number field that is
    distinct from the previously received Event Notification
    OAMPDU Sequence Number.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.24."
  ::= { dot3OamStatsEntry 4 }

dot3OamDuplicateEventNotificationTx OBJECT-TYPE
  SYNTAX
  Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of duplicate Event OAMPDUs transmitted
```

on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously transmitted Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.23."
::= { dot3OamStatsEntry 5 }

dot3OamDuplicateEventNotificationRx OBJECT-TYPE
SYNTAX Counter32
UNITS
"frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A count of the number of duplicate Event OAMPDUs received on this interface. Event Notification OAMPDUs may be sent in duplicate to increase the probability of successfully being received, given the possibility that a frame may be lost in transit.

A duplicate Event Notification OAMPDU is indicated as an Event Notification OAMPDU with a Sequence Number field that is identical to the previously received Event Notification OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization of the management system, and at other times as indicated by the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.25."
::= { dot3OamStatsEntry 6 }

dot3OamLoopbackControlTx OBJECT-TYPE
SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS

```
    current
  DESCRIPTION
    "A count of the number of Loopback Control OAMPDUs transmitted




    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.26."
  ::= { dot3OamStatsEntry 7 }

dot3OamLoopbackControlRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Loopback Control OAMPDUs received
    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.27."
  ::= { dot3OamStatsEntry 8 }

dot3OamVariableRequestTx OBJECT-TYPE
  SYNTAX      Counter32
   UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Request OAMPDUs transmitted
    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.28."
  ::= { dot3OamStatsEntry 9 }

dot3OamVariableRequestRx OBJECT-TYPE
```

```
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Request OAMPDUs received on



    this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.29."
  ::= { dot3OamStatsEntry
10 }

 dot3OamVariableResponseTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Response OAMPDUs
    transmitted on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.30."
  ::= { dot3OamStatsEntry 11 }

 dot3OamVariableResponseRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Response OAMPDUs received
    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
```

```
    "
  REFERENCE   "[802.3ah], 30.3.6.1.31."
  ::= { dot3OamStatsEntry 12 }

 dot3OamOrgSpecificTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Organization Specific OAMPDUs



    transmitted on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.32."
  ::= { dot3OamStatsEntry 13 }

 dot3OamOrgSpecificRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Organization Specific OAMPDUs
    received on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other
times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.33."
  ::= { dot3OamStatsEntry 14 }

 dot3OamUnsupportedCodesTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of OAMPDUs transmitted on this
    interface with an unsupported op-code.
```

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.18."
::= { dot3OamStatsEntry 15 }

dot3OamUnsupportedCodesRx OBJECT-TYPE
SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A count of the number of OAMPDUs received on this interface

with an unsupported op-code.

Discontinuities
of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.19."
::= { dot3OamStatsEntry 16 }

dot3OamFramesLostDueToOam OBJECT-TYPE
SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A count of the number of frames that were dropped by the OA
multiplexer. Since the OAM multiplexer has multiple inputs
and a single output, there may be cases where frames are
dropped due to transmit resource contention. This counter is
incremented whenever a frame is dropped by the OAM layer.
Note that any Ethernet frame, not just OAMPDUs, may be dropped
by the OAM layer. This can occur when an OAMPDU takes
precedence over a 'normal' frame resulting in the 'normal'
frame being dropped.

When this counter
is incremented, no other counters in this
MIB are incremented.

```
    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.46."
  ::= { dot3OamStatsEntry 17 }

-- ****************************************************************
--
-- Ethernet OAM Event Configuration group
--

 dot3OamEventConfigTable OBJECT-TYPE
  SYNTAX     SEQUENCE OF Dot3OamEventConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Ethernet OAM includes the ability to generate and receive
    Event Notification OAMPDUs to indicate various link problems.
    This table contains the mechanisms to enable Event




    Notifications and configure the thresholds to generate the
    standard Ethernet OAM events.  There is one entry in the table
    for every entry in
dot3OamTable that supports OAM events
    (where dot3OamFunctionsSupported includes the eventSupport
    bit set).  The values in the table are maintained across
    changes to dot3OamOperStatus.

    The standard threshold crossing events are:
      - Errored Symbol Period Event.  Generated when the number of
        symbol errors exceeds a threshold within a given window
        defined by a number of symbols (for example, 1,000 symbols
        out of 1,000,000 had errors).
      - Errored Frame Period Event.  Generated when the number of
        frame errors exceeds a threshold within a given window
        defined by a number of frames (for example, 10 frames out
        of 1000 had errors).
      - Errored Frame Event.  Generated when the number of frame
        errors exceeds a threshold within a given window defined
        by a period of time (for example, 10 frames in 1 second
        had errors).
      - Errored Frame Seconds
Summary Event.  Generated when the
        number of errored frame seconds exceeds a threshold within
        a given time period (for example, 10 errored frame seconds
```

```
        within the last 100 seconds).  An errored frame second is
        defined as a 1 second interval which had >0 frame errors.
      There are other events (dying gasp, critical events) that are
      not threshold crossing events but which can be
      enabled/disabled via this table.
      "
    ::= { dot3OamObjects 5 }

  dot3OamEventConfigEntry OBJECT-TYPE
    SYNTAX      Dot3OamEventConfigEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "Entries are automatically created and deleted from this
      table, and exist whenever the OAM entity supports Ethernet OA
      events (as indicated by the eventSupport bit in
      dot3OamFunctionsSuppported).  Values in the table are
      maintained across changes to the value of dot3OamOperStatus.

      Event
  configuration controls when the local management entity
      sends Event Notification OAMPDUs to its OAM peer, and when
      certain event flags are set or cleared in OAMPDUs.
      "
    INDEX       { ifIndex }
    ::= { dot3OamEventConfigTable 1 }



  Dot3OamEventConfigEntry ::=
    SEQUENCE {
          dot3OamErrSymPeriodWindowHi       Unsigned32,
          dot3OamErrSymPeriodWindowLo       Unsigned32,
          dot3OamErrSymPeriodThresholdHi    Unsigned32,
          dot3OamErrSymPeriodThresholdLo    Unsigned32,
          dot3OamErrSymPeriodEvNotifEnable  TruthValue,
          dot3OamErrFramePeriodWindow       Unsigned32,
          dot3OamErrFramePeriodThreshold    Unsigned32,
          dot3OamErrFramePeriodEvNotifEnable TruthValue,
          dot3OamErrFrameWindow             Unsigned32,
          dot3OamErrFrameThreshold          Unsigned32,
          dot3OamErrFrameEvNotifEnable      TruthValue,

        dot3OamErrFrameSecsSummaryWindow   Integer32,
          dot3OamErrFrameSecsSummaryThreshold Integer32,
          dot3OamErrFrameSecsEvNotifEnable  TruthValue,
          dot3OamDyingGaspEnable            TruthValue,
          dot3OamCriticalEventEnable        TruthValue
```

```
        }

 dot3OamErrSymPeriodWindowHi OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "2^32 symbols"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodWindowHi and
    dot3OamErrSymPeriodLo together form an unsigned 64-bit
    integer representing the number of symbols over which this
    threshold event is defined.  This is defined as
  dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                            + dot3OamErrSymPeriodWindowLo

    If dot3OamErrSymPeriodThreshold symbol errors occur within a
    window of dot3OamErrSymPeriodWindow symbols, an Event

    Notification OAMPDU should be generated with an Errored Symbol
    Period Event TLV indicating that the threshold has been
    crossed in this window.

    The default value for dot3OamErrSymPeriodWindow is the number
    of symbols in one second for the underlying physical layer.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.34"
  ::= { dot3OamEventConfigEntry 1 }

 dot3OamErrSymPeriodWindowLo OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "symbols"



  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodWindowHi and
    dot3OamErrSymPeriodWindowLo together form an unsigned 64-bit
    integer representing the number of symbols over which this
    threshold event is defined.  This is defined as

  dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                            + dot3OamErrSymPeriodWindowLo

    If dot3OamErrSymPeriodThreshold symbol errors
occur within a
    window of dot3OamErrSymPeriodWindow symbols, an Event
```

```
    Notification OAMPDU should be generated with an Errored Symbol
    Period Event TLV indicating that the threshold has been
    crossed in this window.

    The default value for dot3OamErrSymPeriodWindow is the number
    of symbols in one second for the underlying physical layer.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.34"
  ::= { dot3OamEventConfigEntry 2 }

 dot3OamErrSymPeriodThresholdHi OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "2^32 symbols"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodThresholdHi and
    dot3OamErrSymPeriodThresholdLo together form an unsigned
    64-bit integer representing the number of symbol errors that
    must occur within a given window to cause this event.

    This is defined as

      dot3OamErrSymPeriodThreshold =
                  ((2^32) *
dot3OamErrSymPeriodThresholdHi)
                        + dot3OamErrSymPeriodThresholdLo

    If dot3OamErrSymPeriodThreshold symbol errors occur within a
    window of dot3OamErrSymPeriodWindow symbols, an Event
    Notification OAMPDU should be generated with an Errored Symbol
    Period Event TLV indicating that the threshold has been
    crossed in this window.

    The default value for dot3OamErrSymPeriodThreshold is one
    symbol errors.  If the threshold value is zero, then an Event



    Notification OAMPDU is sent periodically (at the end of every
    window).  This can be used as an asynchronous notification to
    the peer OAM entity of the statistics related to this
    threshold crossing alarm.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.34"
  ::= { dot3OamEventConfigEntry 3 }

 dot3OamErrSymPeriodThresholdLo OBJECT-TYPE
```

SYNTAX Unsigned32
UNITS "symbols"
MAX-ACCESS read-write
STATUS
current
DESCRIPTION
"The two objects dot3OamErrSymPeriodThresholdHi and
dot3OamErrSymPeriodThresholdLo together form an unsigned
64-bit integer representing the number of symbol errors that
must occur within a given window to cause this event.

This is defined as

dot3OamErrSymPeriodThreshold =
((2^32) * dot3OamErrSymPeriodThresholdHi)
+ dot3OamErrSymPeriodThresholdLo

If dot3OamErrSymPeriodThreshold symbol errors occur within a
window of dot3OamErrSymPeriodWindow symbols, an Event
Notification OAMPDU should be generated with an Errored Symbol
Period Event TLV indicating that the threshold has been
crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one
symbol error. If the threshold value is zero, then an Event
Notification OAMPDU is sent periodically (at the end of every
window). This
can be used as an asynchronous notification to
the peer OAM entity of the statistics related to this
threshold crossing alarm.
"
REFERENCE "[802.3ah], 30.3.6.1.34"
::= { dot3OamEventConfigEntry 4 }

dot3OamErrSymPeriodEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true, the OAM entity should send an Event Notification
OAMPDU when an Errored Symbol Period Event occurs.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the

dot3OamFunctionsSupported attribute), this value is ignored.
"
::= { dot3OamEventConfigEntry 5 }

dot3OamErrFramePeriodWindow OBJECT-TYPE
SYNTAX Unsigned32
UNITS "frames"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The
number of frames over which the threshold is defined.
The default value of the window is the number of minimum size
Ethernet frames that can be received over the physical layer
in one second.

If dot3OamErrFramePeriodThreshold frame errors occur within a
window of dot3OamErrFramePeriodWindow frames, an Event
Notification OAMPDU should be generated with an Errored Frame
Period Event TLV indicating that the threshold has been
crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.38"
::= { dot3OamEventConfigEntry 6 }

dot3OamErrFramePeriodThreshold OBJECT-TYPE
SYNTAX Unsigned32
UNITS "frames"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The number of frame errors that must occur for this event to
be triggered. The default value is one frame error. If the
threshold value is zero, then an Event Notification OAMPDU is
sent periodically
(at the end of every window). This can be
used as an asynchronous notification to the peer OAM entity of
the statistics related to this threshold crossing alarm.

If dot3OamErrFramePeriodThreshold frame errors occur within a
window of dot3OamErrFramePeriodWindow frames, an Event
Notification OAMPDU should be generated with an Errored Frame
Period Event TLV indicating that the threshold has been
crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.38"

```
  ::= { dot3OamEventConfigEntry 7 }

 dot3OamErrFramePeriodEvNotifEnable OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "If true, the OAM entity should send an Event Notification
    OAMPDU when an Errored Frame Period Event occurs.

    By default, this object should have the value true for
    Ethernet-like interfaces that support OAM.  If the OAM layer
    does not support Event Notifications
(as indicated via the
    dot3OamFunctionsSupported attribute), this value is ignored.
    "
  ::= { dot3OamEventConfigEntry 8 }

 dot3OamErrFrameWindow OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "tenths of a second"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The amount of time (in 100ms increments) over which the
    threshold is defined.  The default value is 10 (1 second).

    If dot3OamErrFrameThreshold frame errors occur within a window
    of dot3OamErrFrameWindow seconds (measured in tenths of
    seconds), an Event Notification OAMPDU should be generated
    with an Errored Frame Event TLV indicating that the threshold
    has been crossed in this window.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.36"
  DEFVAL { 10 }
  ::= { dot3OamEventConfigEntry 9 }

 dot3OamErrFrameThreshold OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "frames"
  MAX-ACCESS  read-write

 STATUS      current
  DESCRIPTION
    "The number of frame errors that must occur for this event to
    be triggered.  The default value is one frame error.  If the
    threshold value is zero, then an Event Notification OAMPDU is
```

sent periodically (at the end of every window). This can be
used as an asynchronous notification to the peer OAM entity of
the statistics related to this threshold crossing alarm.

If dot3OamErrFrameThreshold frame errors occur within a window
of dot3OamErrFrameWindow (in tenths of seconds), an Event
Notification OAMPDU should be generated with an Errored Frame
Event TLV indicating the threshold has been crossed in this
window.
"
REFERENCE "[802.3ah], 30.3.6.1.36"
DEFVAL { 1 }
::= { dot3OamEventConfigEntry 10 }

dot3OamErrFrameEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true,
the OAM entity should send an Event Notification
OAMPDU when an Errored Frame Event occurs.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"
DEFVAL { true }
::= { dot3OamEventConfigEntry 11 }

dot3OamErrFrameSecsSummaryWindow OBJECT-TYPE
SYNTAX Integer32 (100..9000)
UNITS "tenths of a second"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The amount of time (in 100 ms intervals) over which the
threshold is defined. The default value is 100 (10 seconds).

If dot3OamErrFrameSecsSummaryThreshold frame errors occur
within a window of dot3OamErrFrameSecsSummaryWindow (in tenths
of seconds), an Event Notification OAMPDU should be generated
with an Errored Frame

Seconds Summary Event TLV indicating
that the threshold has been crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.40"
DEFVAL { 100 }
::= { dot3OamEventConfigEntry 12 }

dot3OamErrFrameSecsSummaryThreshold OBJECT-TYPE
SYNTAX Integer32 (1..900)

UNITS "errored frame seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The number of errored frame seconds that must occur for this
event to be triggered. The default value is one errored frame
second. If the threshold value is zero, then an Event
Notification OAMPDU is sent periodically (at the end of every
window). This can be used as an asynchronous notification to
the peer OAM entity of the statistics related to this
threshold crossing alarm.

If dot3OamErrFrameSecsSummaryThreshold frame errors occur
within a window of dot3OamErrFrameSecsSummaryWindow (in tenths
of seconds),
an Event Notification OAMPDU should be generated
with an Errored Frame Seconds Summary Event TLV indicating
that the threshold has been crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.40"
DEFVAL { 1 }
::= { dot3OamEventConfigEntry 13 }

dot3OamErrFrameSecsEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true, the local OAM entity should send an Event
Notification OAMPDU when an Errored Frame Seconds Event
occurs.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.

"
DEFVAL { true }
::= { dot3OamEventConfigEntry 14 }

dot3OamDyingGaspEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write

STATUS current
DESCRIPTION
"If true, the local OAM entity should attempt to indicate a
dying gasp via the OAMPDU flags field to its peer OAM entity
when a dying gasp event occurs. The exact definition of a
dying gasp event is implementation dependent. If the system

does not support dying gasp capability, setting this object
has no effect, and reading the object should always result in
'false'.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"
DEFVAL { true }
::= { dot3OamEventConfigEntry 15 }

dot3OamCriticalEventEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true, the local OAM entity should attempt to indicate
a
critical event via the OAMPDU flags to its peer OAM entity
when a critical event occurs. The exact definition of a
critical event is implementation dependent. If the system
does not support critical event capability, setting this
object has no effect, and reading the object should always
result in 'false'.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"

```
  DEFVAL { true }
  ::= { dot3OamEventConfigEntry 16 }

-- ****************************************************************
--
-- Ethernet OAM Event Log group
--

 dot3OamEventLogTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF Dot3OamEventLogEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table records
a history of the events that have occurred
    at the Ethernet OAM level.  These events can include locally
    detected events, which may result in locally generated
    OAMPDUs, and remotely detected events, which are detected by
    the OAM peer entity and signaled to the local entity via




    Ethernet OAM.  Ethernet OAM events can be signaled by Event
    Notification OAMPDUs or by the flags field in any OAMPDU.

    This table contains both threshold crossing events and
    non-threshold crossing events.  The parameters for the
    threshold window, threshold value, and actual value
    (dot3OamEventLogWindowXX, dot3OamEventLogThresholdXX,
    dot3OamEventLogValue) are only applicable to threshold
    crossing events, and are returned as all F's (2^32 - 1) for
    non-threshold crossing events.

    Entries in the table are automatically created when such
    events are detected.  The size of the table is implementation
    dependent.
 When the table reaches its maximum size, older
    entries are automatically deleted to make room for newer
    entries.
    "
    ::= { dot3OamObjects 6 }

 dot3OamEventLogEntry OBJECT-TYPE
  SYNTAX      Dot3OamEventLogEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the dot3OamEventLogTable.  Entries are
```

```
    automatically created whenever Ethernet OAM events occur at
    the local OAM entity, and when Event Notification OAMPDUs are
    received at the local OAM entity (indicating that events have
    occurred at the peer OAM entity).  The size of the table is
    implementation dependent, but when the table becomes full,
    older events are automatically deleted to make room for newer
    events.  The table index dot3OamEventLogIndex increments for
    each new entry, and when the maximum value is reached, the
    value restarts at zero.
    "
  INDEX       { ifIndex, dot3OamEventLogIndex
}
  ::= { dot3OamEventLogTable 1 }

 Dot3OamEventLogEntry ::=
  SEQUENCE {
    dot3OamEventLogIndex              Unsigned32,
    dot3OamEventLogTimestamp          TimeStamp,
    dot3OamEventLogOui                EightOTwoOui,
    dot3OamEventLogType               Unsigned32,
    dot3OamEventLogLocation           INTEGER,
    dot3OamEventLogWindowHi           Unsigned32,
    dot3OamEventLogWindowLo           Unsigned32,
    dot3OamEventLogThresholdHi        Unsigned32,



    dot3OamEventLogThresholdLo        Unsigned32,
    dot3OamEventLogValue              CounterBasedGauge64,
    dot3OamEventLogRunningTotal       CounterBasedGauge64,
    dot3OamEventLogEventTotal         Unsigned32
  }

 dot3OamEventLogIndex       OBJECT-TYPE
  SYNTAX      Unsigned32(1..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An arbitrary integer for identifying individual events
     within the event log.  "
  ::= { dot3OamEventLogEntry 1 }

 dot3OamEventLogTimestamp  OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of sysUpTime at the time of the logged event.  For
```

locally generated events, the time of the event can be
accurately retrieved from sysUpTime. For remotely generated
events, the time of the event is indicated by the reception of
the Event Notification OAMPDU indicating that the event
occurred on the peer. A system may attempt to adjust the
timestamp value to more accurately reflect the time of the
event at the peer OAM entity by using other information, such
as that found in the timestamp found of the Event Notification
TLVs, which provides an indication of the relative time
between events at the peer entity. "
::= { dot3OamEventLogEntry 2 }

dot3OamEventLogOui OBJECT-TYPE
SYNTAX
EightOTwoOui
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The OUI of the entity defining the object type. All IEEE
802.3 defined events (as appearing in [802.3ah] except for the
Organizationally Unique Event TLVs) use the IEEE 802.3 OUI of
0x0180C2. Organizations defining their own Event Notification
TLVs include their OUI in the Event Notification TLV that
gets reflected here. "
::= { dot3OamEventLogEntry 3 }

dot3OamEventLogType OBJECT-TYPE
SYNTAX Unsigned32

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of event that generated this entry in the event log.
When the OUI is the IEEE 802.3 OUI of 0x0180C2, the following
event types are defined:
erroredSymbolEvent(1),
erroredFramePeriodEvent(2),
erroredFrameEvent(3),
erroredFrameSecondsEvent(4),
linkFault(256),
dyingGaspEvent(257),
criticalLinkEvent(258)
The first four are considered threshold crossing events, as
they are generated when a metric exceeds a given value within
a specified window. The other three are not threshold
crossing events.

```
    When the OUI is not 71874 (0x0180C2 in hex), then some other
    organization has defined the event space.  If event subtyping
    is known to the implementation, it may be reflected here.
    Otherwise, this value should return all F's (2^32 - 1).
    "
  REFERENCE   "[802.3ah], 30.3.6.1.10 and 57.5.3."
  ::= { dot3OamEventLogEntry 4 }

dot3OamEventLogLocation OBJECT-TYPE
  SYNTAX      INTEGER { local(1), remote(2) }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "Whether this event occurred locally (local(1)), or was
    received from the OAM peer via Ethernet OAM (remote(2)).
    "
  ::= { dot3OamEventLogEntry 5 }

dot3OamEventLogWindowHi      OBJECT-TYPE
   SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "If the event represents a threshold crossing event, the two
    objects dot3OamEventWindowHi and dot3OamEventWindowLo, form
    an unsigned 64-bit integer yielding the window over which the
    value was measured for the threshold crossing event (for
    example, 5, when 11 occurrences happened in 5 seconds while
    the threshold was 10).  The two objects are combined as:




    dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
                            + dot3OamEventLogWindowLo

    Otherwise, this value is returned as all F's (2^32 - 1) and
    adds no useful information.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
  ::= { dot3OamEventLogEntry 6 }

dot3OamEventLogWindowLo      OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

"If the
event represents a threshold crossing event, the two
objects dot3OamEventWindowHi and dot3OamEventWindowLo form an
unsigned 64-bit integer yielding the window over which the
value was measured for the threshold crossing event (for
example, 5, when 11 occurrences happened in 5 seconds while
the threshold was 10). The two objects are combined as:

dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
+ dot3OamEventLogWindowLo

Otherwise, this value is returned as all F's (2^32 - 1) and
adds no useful information.
"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 7 }

dot3OamEventLogThresholdHi OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"If the event represents a threshold crossing event, the two
objects dot3OamEventThresholdHi and dot3OamEventThresholdLo
form an unsigned 64-bit integer yielding the value that was
crossed for the threshold crossing event (for example, 10,
when 11 occurrences happened in 5 seconds while the threshold
was 10). The two objects are combined as:

dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
+ dot3OamEventLogThresholdLo

Otherwise, this value is returned as all F's (2^32 -1) and
adds no useful information.
"

REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 8 }

dot3OamEventLogThresholdLo OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"If the event represents a threshold crossing event, the two
objects dot3OamEventThresholdHi and dot3OamEventThresholdLo

form an unsigned 64-bit integer yielding the value that was
crossed for the threshold crossing event (for example,
10,
when 11 occurrences happened in 5 seconds while the threshold
was 10). The two objects are combined as:

dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
+ dot3OamEventLogThresholdLo

Otherwise, this value is returned as all F's (2^32 - 1) and
adds no useful information.
"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 9 }

dot3OamEventLogValue OBJECT-TYPE
SYNTAX CounterBasedGauge64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"If the event represents a threshold crossing event, this
value indicates the value of the parameter within the given
window that generated this event (for example, 11, when 11
occurrences happened in 5 seconds while the threshold was 10).

Otherwise, this value is returned as all F's
(2^64 - 1) and adds no useful information.

"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 10 }

dot3OamEventLogRunningTotal OBJECT-TYPE
SYNTAX CounterBasedGauge64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Each Event Notification TLV contains a running total of the
number of times an event has occurred, as well as the number
of times an Event Notification for the event has been

transmitted. For non-threshold crossing events, the number of
events (dot3OamLogRunningTotal) and the number of resultant
Event Notifications (dot3OamLogEventTotal) should be
identical.

```
    For threshold crossing events, since multiple occurrences may
    be required to cross the threshold, these values are likely
    different.  This value represents the total number of times
    this event has happened since the last reset (for example,
    3253, when 3253 symbol errors have occurred since the last
     reset, which has resulted in 51 symbol error threshold
    crossing events since the last reset).
    "
  REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
  ::= { dot3OamEventLogEntry 11 }

 dot3OamEventLogEventTotal      OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "Each Event Notification TLV contains a running total of the
    number of times an event has occurred, as well as the number
    of times an Event Notification for the event has been
    transmitted.  For non-threshold crossing events, the number of
    events (dot3OamLogRunningTotal) and the number of resultant
    Event Notifications (dot3OamLogEventTotal) should be
    identical.

    For threshold crossing events, since multiple occurrences may
    be required to cross the threshold, these values are likely
    different.  This value represents the total number of times
    one or more of these
occurrences have resulted in an Event
    Notification (for example, 51 when 3253 symbol errors have
    occurred since the last reset, which has resulted in 51 symbol
    error threshold crossing events since the last reset).
    "
  REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
  ::= { dot3OamEventLogEntry 12 }

 -- ****************************************************************
 --
 -- Ethernet OAM Notifications
 --

 dot3OamThresholdEvent NOTIFICATION-TYPE
  OBJECTS { dot3OamEventLogTimestamp,
            dot3OamEventLogOui,



            dot3OamEventLogType,
```

```
            dot3OamEventLogLocation,
            dot3OamEventLogWindowHi,
            dot3OamEventLogWindowLo,
            dot3OamEventLogThresholdHi,
            dot3OamEventLogThresholdLo,
            dot3OamEventLogValue,
            dot3OamEventLogRunningTotal,
            dot3OamEventLogEventTotal
          }
  STATUS  current
  DESCRIPTION

"A dot3OamThresholdEvent notification is sent when a local or
    remote threshold crossing event is detected.  A local
    threshold crossing event is detected by the local entity,
    while a remote threshold crossing event is detected by the
    reception of an Ethernet OAM Event Notification OAMPDU
    that indicates a threshold event.

    This notification should not be sent more than once per
    second.

    The OAM entity can be derived from extracting the ifIndex from
    the variable bindings.  The objects in the notification
    correspond to the values in a row instance in the
    dot3OamEventLogTable.

    The management entity should periodically check
    dot3OamEventLogTable to detect any missed events."
  ::= { dot3OamNotifications 1 }

dot3OamNonThresholdEvent NOTIFICATION-TYPE
  OBJECTS { dot3OamEventLogTimestamp,
            dot3OamEventLogOui,
            dot3OamEventLogType,
            dot3OamEventLogLocation,
             dot3OamEventLogEventTotal
          }
  STATUS  current
  DESCRIPTION
    "A dot3OamNonThresholdEvent notification is sent when a local
    or remote non-threshold crossing event is detected.  A local
    event is detected by the local entity, while a remote event is
    detected by the reception of an Ethernet OAM Event
    Notification OAMPDU that indicates a non-threshold crossing
    event.

    This notification should not be sent more than once per
```

```
    second.

    The OAM entity can be derived from extracting the ifIndex from
    the variable bindings.  The objects in the notification
    correspond to the values in a row instance of the
    dot3OamEventLogTable.

    The management entity should periodically check
    dot3OamEventLogTable to detect any missed events."
  ::= { dot3OamNotifications 2 }

-- ****************************************************************
--
-- Ethernet OAM Compliance
group
--

dot3OamGroups OBJECT IDENTIFIER ::= { dot3OamConformance 1 }
dot3OamCompliances OBJECT IDENTIFIER ::= { dot3OamConformance 2 }

-- Compliance statements

dot3OamCompliance MODULE-COMPLIANCE
  STATUS         current
  DESCRIPTION "The compliance statement for managed entities
               supporting OAM on Ethernet-like interfaces.
               "
  MODULE   -- this module
    MANDATORY-GROUPS { dot3OamControlGroup,
                       dot3OamPeerGroup,
                       dot3OamStatsBaseGroup
                     }

    GROUP       dot3OamLoopbackGroup
    DESCRIPTION
      "This group is mandatory for all IEEE 802.3 OA
      implementations that support loopback functionality. "

    GROUP       dot3OamErrSymbolPeriodEventGroup
    DESCRIPTION
      "This group is mandatory for all IEEE 802.3 OA
      implementations that support event functionality. "

    GROUP       dot3OamErrFramePeriodEventGroup
    DESCRIPTION
```

```
    "This group is mandatory for all IEEE 802.3 OA
     implementations that support event functionality. "

   GROUP       dot3OamErrFrameEventGroup



   DESCRIPTION
     "This group is mandatory for all IEEE 802.3 OA
     implementations that support event functionality. "

   GROUP       dot3OamErrFrameSecsSummaryEventGroup
   DESCRIPTION
     "This group is mandatory for all IEEE 802.3 OA
     implementations that support event functionality. "

   GROUP        dot3OamFlagEventGroup
   DESCRIPTION
     "This group is optional for all IEEE 802.3 OA
     implementations.  The ability to send critical events or dying
     gasp events is not required in any system."

   GROUP       dot3OamEventLogGroup
   DESCRIPTION
     "This group is optional for all IEEE 802.3 OA
     implementations.  Entries in this table are dependent on what
     event functionality is supported in the local OA
     implementation.  At least one type of event must be supported
      for entries to appear in this table.  "

   GROUP       dot3OamNotificationGroup
   DESCRIPTION
     "This group is optional for all IEEE 802.3 OA
     implementations.  Since the information in the notifications
     is dependent on the dot3OamEventLogTable, that table must be
     implemented for notifications.  "

   ::= { dot3OamCompliances 1}

 dot3OamControlGroup OBJECT-GROUP
   OBJECTS     {   dot3OamAdminState,
                   dot3OamOperStatus,
                   dot3OamMode,
                   dot3OamMaxOamPduSize,
                   dot3OamConfigRevision,
                   dot3OamFunctionsSupported
               }
```

```
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the abilities,
    configuration, and status of an Ethernet OAM entity.  "
  ::= { dot3OamGroups 1 }

dot3OamPeerGroup OBJECT-GROUP
  OBJECTS     {   dot3OamPeerMacAddress,




                  dot3OamPeerVendorOui,

                dot3OamPeerVendorInfo,
                  dot3OamPeerMode,
                  dot3OamPeerFunctionsSupported,
                  dot3OamPeerMaxOamPduSize,
                  dot3OamPeerConfigRevision
                }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the abilities,
    configuration, and status of a peer Ethernet OAM entity.  "
  ::= { dot3OamGroups 2 }

dot3OamStatsBaseGroup OBJECT-GROUP
  OBJECTS     {   dot3OamInformationTx,
                  dot3OamInformationRx,
                  dot3OamUniqueEventNotificationTx,
                  dot3OamUniqueEventNotificationRx,
                  dot3OamDuplicateEventNotificationTx,
                  dot3OamDuplicateEventNotificationRx,
                  dot3OamLoopbackControlTx,
                  dot3OamLoopbackControlRx,
                  dot3OamVariableRequestTx,
                  dot3OamVariableRequestRx,
                  dot3OamVariableResponseTx,
                   dot3OamVariableResponseRx,
                  dot3OamOrgSpecificTx,
                  dot3OamOrgSpecificRx,
                  dot3OamUnsupportedCodesTx,
                  dot3OamUnsupportedCodesRx,
                  dot3OamFramesLostDueToOam
                }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the statistics for the
    number of various transmit and receive events for OAM on an
```

```
    Ethernet-like interface.  Note that all of these counters must
    be supported even if the related function (as described in
    dot3OamFunctionsSupported) is not supported.  "
  ::= { dot3OamGroups 3 }

dot3OamLoopbackGroup OBJECT-GROUP
  OBJECTS     {   dot3OamLoopbackStatus,
                  dot3OamLoopbackIgnoreRx
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for controlling the OAM remote




    loopback function.  "

::= { dot3OamGroups 4 }

dot3OamErrSymbolPeriodEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrSymPeriodWindowHi,
                  dot3OamErrSymPeriodWindowLo,
                  dot3OamErrSymPeriodThresholdHi,
                  dot3OamErrSymPeriodThresholdLo,
                  dot3OamErrSymPeriodEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Symbol Period Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 5 }

dot3OamErrFramePeriodEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFramePeriodWindow,
                  dot3OamErrFramePeriodThreshold,
                  dot3OamErrFramePeriodEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for
configuring the thresholds for an
    Errored Frame Period Event.

    Each [802.3ah] defined Event Notification TLV has its own
```

```
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 6 }

dot3OamErrFrameEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFrameWindow,
                  dot3OamErrFrameThreshold,
                  dot3OamErrFrameEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "



  ::= { dot3OamGroups 7 }

dot3OamErrFrameSecsSummaryEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFrameSecsSummaryWindow,
                  dot3OamErrFrameSecsSummaryThreshold,
                  dot3OamErrFrameSecsEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 8 }

dot3OamFlagEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamDyingGaspEnable,
                  dot3OamCriticalEventEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the sending OAMPDUs
    with the critical event flag or dying gasp flag enabled.  "
  ::= { dot3OamGroups 9 }

dot3OamEventLogGroup OBJECT-GROUP
```

```
  OBJECTS {  dot3OamEventLogTimestamp,
             dot3OamEventLogOui,
             dot3OamEventLogType,
             dot3OamEventLogLocation,
             dot3OamEventLogWindowHi,
             dot3OamEventLogWindowLo,
              dot3OamEventLogThresholdHi,
             dot3OamEventLogThresholdLo,
             dot3OamEventLogValue,
             dot3OamEventLogRunningTotal,
             dot3OamEventLogEventTotal
           }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event and maintaining the event
    information.  "
  ::= { dot3OamGroups 10 }

dot3OamNotificationGroup NOTIFICATION-GROUP



  NOTIFICATIONS {
             dot3OamThresholdEvent,
             dot3OamNonThresholdEvent
               }
  STATUS      current
  DESCRIPTION
    "A collection of notifications used by Ethernet OAM to signal
    to a management entity that local or remote events have
    occurred on a specified Ethernet link. "
  ::= { dot3OamGroups 11 }

 END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB
No license file was found, but licenses were detected in source scan.

SYSAPPL-MIB DEFINITIONS ::= BEGIN

 IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE,
    Unsigned32, TimeTicks, Counter32, Gauge32
       FROM SNMPv2-SMI
    DateAndTime, TEXTUAL-CONVENTION
       FROM SNMPv2-TC
```

```
   MODULE-COMPLIANCE, OBJECT-GROUP
      FROM SNMPv2-CONF
   mib-2 FROM SNMPv2-SMI;

-- System Application MIB

sysApplMIB MODULE-IDENTITY
   LAST-UPDATED "9710200000Z"
   ORGANIZATION "IETF Applications MIB Working Group"
   CONTACT-INFO
        "Cheryl Krupczak (Editor, WG Advisor)
         Postal: Empire Technologies, Inc.
         541 Tenth Street NW
         Suite 169
         Atlanta, GA 30318
         USA
         Phone: (770) 384-0184
         Email: cheryl@empiretech.com

         Jon Saperia (WG Chair)
         Postal:  BGS Systems, Inc.
         One First Avenue
         Waltham, MA 02254-9111
         USA

 Phone: (617) 891-0000
         Email: saperia@networks.bgs.com"
   DESCRIPTION
      "The MIB module defines management objects that model
      applications as collections of executables and files
      installed and executing on a host system.  The MIB
      presents a system-level view of applications; i.e.,
      objects in this MIB are limited to those attributes
      that can typically be obtained from the system itself
      without adding special instrumentation to the applications."
   ::= { mib-2 54  }


sysApplOBJ             OBJECT IDENTIFIER ::= { sysApplMIB 1 }
sysApplInstalled       OBJECT IDENTIFIER ::= { sysApplOBJ 1 }
sysApplRun             OBJECT IDENTIFIER ::= { sysApplOBJ 2 }
sysApplMap             OBJECT IDENTIFIER ::= { sysApplOBJ 3 }
sysApplNotifications   OBJECT IDENTIFIER ::= { sysApplMIB 2 }
sysApplConformance     OBJECT IDENTIFIER ::= { sysApplMIB 3 }

-- Textual Conventions

RunState ::= TEXTUAL-CONVENTION
```

```
    STATUS      current
    DESCRIPTION
        "This TC describes the current execution state of
        a running application or process.  The possible
        values are:
          running(1),
          runnable(2),  - waiting for a resource (CPU, etc.)
          waiting(3),   - waiting for an event
          exiting(4),
          other(5)      - other invalid state"
    SYNTAX      INTEGER {
                running (1),
                runnable (2), -- waiting for resource (CPU, etc.)
                waiting (3),  -- waiting for event
                exiting (4),
                other (5)     -- other invalid state
                }

LongUtf8String ::= TEXTUAL-CONVENTION
      DISPLAY-HINT "1024a"
      STATUS  current
      DESCRIPTION
            "To facilitate internationalization, this TC
             represents information taken from the ISO/IEC IS
             10646-1 character set, encoded as an octet string
              using the UTF-8 character encoding scheme described
             in RFC 2044 [10].  For strings in 7-bit US-ASCII,
             there is no impact since the UTF-8 representation
             is identical to the US-ASCII encoding."
      SYNTAX  OCTET STRING (SIZE (0..1024))

Utf8String ::= TEXTUAL-CONVENTION
      DISPLAY-HINT "255a"
      STATUS  current
      DESCRIPTION
            "To facilitate internationalization, this TC
             represents information taken from the ISO/IEC IS
             10646-1 character set, encoded as an octet string
             using the UTF-8 character encoding scheme described
             in RFC 2044 [10].  For strings in 7-bit US-ASCII,
             there is no impact since the UTF-8 representation
             is identical to the US-ASCII encoding."
      SYNTAX  OCTET STRING (SIZE (0..255))



 -- sysApplInstalled Group
 -- This group provides information about application
```

```
packages
-- that have been installed on the host computer.  The group
-- contains two tables.  The first, the sysApplInstallPkgTable,
-- describes the application packages, the second, the
-- sysApplInstallElmtTable, describes the constituent elements
-- (files and executables) which compose an application package.

--
-- In order to appear in this group, an application and its
-- component files must be discoverable by the system itself,
-- possibly through some type of software installation mechanism
-- or registry.

-- sysApplInstallPkgTable
-- The system installed application packages table provides
-- information on the software packages installed on a system.
-- These packages may consist of many different files including
-- executable and non-executable files.

sysApplInstallPkgTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplInstallPkgEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The table listing
the software application packages
      installed on a host computer. In order to appear in
      this table, it may be necessary for the application
      to be installed using some type of software
      installation mechanism or global registry so that its
      existence can be detected by the agent implementation."

   ::= { sysApplInstalled 1 }

sysApplInstallPkgEntry OBJECT-TYPE
   SYNTAX      SysApplInstallPkgEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The logical row describing an installed application
      package."
   INDEX    { sysApplInstallPkgIndex }
   ::= { sysApplInstallPkgTable 1 }

SysApplInstallPkgEntry ::= SEQUENCE {
   sysApplInstallPkgIndex              Unsigned32,
   sysApplInstallPkgManufacturer       Utf8String,
   sysApplInstallPkgProductName        Utf8String,
```

```
    sysApplInstallPkgVersion            Utf8String,
    sysApplInstallPkgSerialNumber
     Utf8String,
    sysApplInstallPkgDate               DateAndTime,
    sysApplInstallPkgLocation           LongUtf8String
}

sysApplInstallPkgIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An integer used only for indexing purposes.
        Generally monotonically increasing from 1 as new
        applications are installed.

        The value for each installed application must
        remain constant at least from one re-initialization of
        the network management entity which implements this
        MIB module to the next re-initialization.

        The specific value is meaningful only within a given SNMP
        entity. A sysApplInstallPkgIndex value must not be re-used
        until the next agent entity restart in the event the
        installed application entry is deleted."
    ::= { sysApplInstallPkgEntry 1 }

sysApplInstallPkgManufacturer
OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Manufacturer of the software application package."
    ::= { sysApplInstallPkgEntry 2 }

sysApplInstallPkgProductName OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The name assigned to the software application package
        by the Manufacturer."
    ::= { sysApplInstallPkgEntry 3 }

sysApplInstallPkgVersion OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
        "The version number assigned to the application package
        by the manufacturer of the software."
    ::= { sysApplInstallPkgEntry 4 }

sysApplInstallPkgSerialNumber OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The serial number of the software assigned
by the
        manufacturer."
    ::= { sysApplInstallPkgEntry 5 }

sysApplInstallPkgDate OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time this software application was installed
        on the host."
    ::= { sysApplInstallPkgEntry 6 }

sysApplInstallPkgLocation OBJECT-TYPE
    SYNTAX      LongUtf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The complete path name where the application package
        is installed.  For example, the value would be
        '/opt/MyapplDir' if the application package was installed
        in the /opt/MyapplDir directory."
    ::= { sysApplInstallPkgEntry 7 }


-- sysApplInstallElmtTable
-- The table describing the individual application package
-- elements (files and executables) installed on the host computer.

sysApplInstallElmtTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SysApplInstallElmtEntry
     MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table details the individual application package
        elements (files and executables) which comprise the
```

```
        applications defined in the sysApplInstallPkg Table.
        Each entry in this table has an index to the
        sysApplInstallPkg table to identify the application
        package of which it is a part. As a result, there may
        be many entries in this table for each instance in the
        sysApplInstallPkg Table.

        Table entries are indexed by sysApplInstallPkgIndex,
        sysApplInstallElmtIndex to facilitate retrieval of
        all elements associated with a particular installed
        application package."
    ::= { sysApplInstalled 2 }

sysApplInstallElmtEntry OBJECT-TYPE
    SYNTAX      SysApplInstallElmtEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row
describing an element of an installed
        application.  The element may be an executable or
        non-executable file."
    INDEX    {sysApplInstallPkgIndex, sysApplInstallElmtIndex}
    ::= { sysApplInstallElmtTable 1 }

SysApplInstallElmtEntry ::= SEQUENCE {
    sysApplInstallElmtIndex              Unsigned32,
    sysApplInstallElmtName               Utf8String,
    sysApplInstallElmtType               INTEGER,
    sysApplInstallElmtDate               DateAndTime,
    sysApplInstallElmtPath               LongUtf8String,
    sysApplInstallElmtSizeHigh           Unsigned32,
    sysApplInstallElmtSizeLow            Unsigned32,
    sysApplInstallElmtRole               BITS,
    sysApplInstallElmtModifyDate         DateAndTime,
    sysApplInstallElmtCurSizeHigh        Unsigned32,
    sysApplInstallElmtCurSizeLow         Unsigned32

}

sysApplInstallElmtIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
     MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An arbitrary integer used for indexing.  The value
        of this index is unique among all rows in this table
        that exist or have existed since the last agent restart."
```

```
    ::= { sysApplInstallElmtEntry 1 }


sysApplInstallElmtName OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The name of this element which is contained in the
        application."
    ::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType OBJECT-TYPE
    SYNTAX      INTEGER {
                unknown(1),
                nonexecutable(2),
                operatingSystem(3),  -- executable
                deviceDriver(4),     -- executable
                application(5)       -- executable
                }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The type of element that is
part of the installed
        application."
    ::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time that this component was installed on
        the system."
    ::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath OBJECT-TYPE
    SYNTAX      LongUtf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The full directory path where this element is installed.
        For example, the value would be '/opt/EMPuma/bin' for an
        element installed in the directory '/opt/EMPuma/bin'.
        Most application packages include information about the
        elements contained in the package. In addition, elements
        are typically installed in sub-directories under the
```

```
        package installation directory.  In cases where the
        element path names are not included
in the package
        information itself, the path can usually be determined
        by a simple search of the sub-directories.  If the
        element is not installed in that location and there is
        no other information available to the agent implementation,
        then the path is unknown and null is returned."
    ::= { sysApplInstallElmtEntry 5}

sysApplInstallElmtSizeHigh OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The installed file size in 2^32 byte blocks. This is
        the size of the file on disk immediately after installation.

        For example, for a file with a total size of 4,294,967,296
        bytes, this variable would have a value of 1; for a file
        with a total size of 4,294,967,295 bytes this variable
        would be 0."
    ::= { sysApplInstallElmtEntry 6 }

sysApplInstallElmtSizeLow OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS
 read-only
    STATUS      current
    DESCRIPTION
        "The installed file size modulo 2^32 bytes.  This is
        the size of the file on disk immediately after installation.

        For example, for a file with a total size of 4,294,967,296
        bytes this variable would have a value of 0; for a file with
        a total size of 4,294,967,295 bytes this variable would be
        4,294,967,295."
    ::= { sysApplInstallElmtEntry 7 }

sysApplInstallElmtRole  OBJECT-TYPE
    SYNTAX      BITS {
                executable(0),
                  -- An application may have one or
                  -- more executable elements.  The rest of the
                  -- bits have no meaning if the element is not
                  -- executable.
                exclusive(1),
                  -- Only one copy of an exclusive element may be
```

```
                -- running per invocation of the running
                -- application.

        primary(2),
                -- The primary executable.  An application can
                -- have one, and only one element that is designated
                -- as the primary executable.  The execution of
                -- this element constitutes an invocation of
                -- the application.  This is used by the agent
                -- implementation to determine the initiation of
                -- an application.  The primary executable must
                -- remain running long enough for the agent
                -- implementation to detect its presence.
              required(3),
                -- An application may have zero or more required
                -- elements. All required elements must be running

                -- in order for the application to be judged to be
                -- running and healthy.
              dependent(4),
                -- An application may have
zero or more
                -- dependent elements. Dependent elements may
                -- not be running unless required elements are.
              unknown(5)
                -- Default value for the case when an operator
                -- has not yet assigned one of the other values.
                -- When set, bits 1, 2, 3, and 4 have no meaning.
              }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "An operator assigned value used in the determination of
        application status. This value is used by the agent to
        determine both the mapping of started processes to the
        initiation of an application, as well as to allow for a
        determination of application health. The default value,
        unknown(5), is used when an operator has not yet assigned
        one of the other values.  If unknown(5) is set, bits
        1 - 4 have no meaning.  The possible values are:

              executable(0),
                An application may have one or
                more executable elements.  The rest of the
                bits have no meaning if the element is not
                executable.
              exclusive(1),
                Only one copy of an exclusive element may be
```

```
                running per invocation of the running
                application.
            primary(2),
                The primary executable.  An application can
                have one, and only one element that is designated
                as the primary executable.  The execution of
                this element constitutes an invocation of
                the application.  This is used by the agent
                implementation to determine the initiation of
                an application.  The primary executable must
                remain running long enough for
the agent
                implementation to detect its presence.
            required(3),
                An application may have zero or more required
                elements. All required elements must be running
                in order for the application to be judged to be
                running and healthy.
            dependent(4),
                An application may have zero or more
                dependent elements. Dependent elements may
                not be running unless required elements are.
            unknown(5)
                Default value for the case when an operator
                has not yet assigned one of the other values.
                When set, bits 1, 2, 3, and 4 have no meaning.

        sysApplInstallElmtRole is used by the agent implementation
        in determining the initiation of an application, the
        current state of a running application (see
         sysApplRunCurrentState), when an application invocation is
        no longer running, and the exit status of a terminated
        application invocation (see sysApplPastRunExitState)."

    DEFVAL { { unknown } }
    ::= { sysApplInstallElmtEntry 8 }

sysApplInstallElmtModifyDate OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time that this element was last modified.
        Modification of the sysApplInstallElmtRole columnar
        object does NOT constitute a modification of the element
        itself and should not affect the value of this object."
    ::= { sysApplInstallElmtEntry 9 }
```

```
sysApplInstallElmtCurSizeHigh OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The current file size in 2^32 byte blocks.
      For example, for a file with a total size of 4,294,967,296
      bytes,
this variable would have a value of 1; for a file
      with a total size of 4,294,967,295 bytes this variable
      would be 0."
   ::= { sysApplInstallElmtEntry 10 }

sysApplInstallElmtCurSizeLow OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The current file size modulo 2^32 bytes.
      For example, for a file with a total size of 4,294,967,296
      bytes this variable would have a value of 0; for a file with
      a total size of 4,294,967,295 bytes this variable would be
      4,294,967,295."
   ::= { sysApplInstallElmtEntry 11 }



-- sysApplRun Group
-- This group models activity information for applications
-- that have been invoked and are either currently running,
-- or have previously run on the host system.  Likewise,
-- the individual elements of an invoked application are
-- also modeled to show currently running processes, and
-- processes that
have run in the past.

-- sysApplRunTable
-- The sysApplRunTable contains the application instances
-- which are currently running on the host.  Since a single
-- application might be invoked multiple times, an entry is
-- added to this table for each INVOCATION of an application.
-- The table is indexed by sysApplInstallPkgIndex, sysApplRunIndex
-- to enable managers to easily locate all invocations of
-- a particular application package.

sysApplRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplRunEntry
   MAX-ACCESS  not-accessible
```

```
    STATUS      current
    DESCRIPTION
        "The table describes the applications which are executing
        on the host.  Each time an application is invoked,
        an entry is created in this table. When an application ends,
        the entry is removed from this table and a corresponding
              entry is created in the SysApplPastRunTable.

        A new entry is created in this table whenever
the agent
        implementation detects a new running process that is an
        installed application element whose sysApplInstallElmtRole
        designates it as being the application's primary executable
        (sysApplInstallElmtRole = primary(2) ).

        The table is indexed by sysApplInstallPkgIndex,
        sysApplRunIndex to enable managers to easily locate all
        invocations of a particular application package."
    ::= { sysApplRun 1 }

sysApplRunEntry OBJECT-TYPE
    SYNTAX      SysApplRunEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row describing an application which is
        currently running on this host."
    INDEX    { sysApplInstallPkgIndex, sysApplRunIndex }
    ::= { sysApplRunTable   1 }

SysApplRunEntry ::= SEQUENCE {
    sysApplRunIndex                 Unsigned32,
    sysApplRunStarted               DateAndTime,
    sysApplRunCurrentState
            RunState
}

sysApplRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An arbitrary
        integer used only for indexing purposes. Generally
        monotonically increasing from 1 as new applications are
        started on the host, it uniquely identifies application
        invocations.
```

The numbering for this index increases by 1 for each
INVOCATION of an application, regardless of which
installed application package this entry represents a
running instance of.

An example of the indexing for a couple of entries is
shown below.

:
sysApplRunStarted.17.14
sysApplRunStarted.17.63
sysApplRunStarted.18.13
:

In this example, the agent has observed 12
application
invocations when the application represented by entry 18
in the sysApplInstallPkgTable is invoked. The next
invocation detected by the agent is an invocation of
installed application package 17. Some time later,
installed application 17 is invoked a second time.

NOTE: this index is not intended to reflect a real-time
(wall clock time) ordering of application invocations;
it is merely intended to uniquely identify running
instances of applications. Although the
sysApplInstallPkgIndex is included in the INDEX clause
for this table, it serves only to ease searching of
this table by installed application and does not
contribute to uniquely identifying table entries."
::= { sysApplRunEntry 1 }

sysApplRunStarted OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The
date and time that the application was started."
::= { sysApplRunEntry 2 }

sysApplRunCurrentState OBJECT-TYPE
SYNTAX RunState
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current state of the running application instance.
The possible values are running(1), runnable(2) but waiting

for a resource such as CPU, waiting(3) for an event,
exiting(4), or other(5). This value is based on an evaluation
of the running elements of this application instance (see
sysApplElmRunState) and their Roles as defined by
sysApplInstallElmtRole. An agent implementation may
detect that an application instance is in the process of
exiting if one or more of its REQUIRED elements are no
longer running. Most agent implementations will wait until
a second internal poll has been completed to give the
system time to start REQUIRED elements before
marking the
application instance as exiting."
::= { sysApplRunEntry 3 }

-- sysApplPastRunTable
-- The sysApplPastRunTable provides a history of applications
-- previously run on the host computer. Entries are removed from
-- the sysApplRunTable and corresponding entries are added to this
-- table when an application becomes inactive. Entries remain in
-- this table until they are aged out when either the table size
-- reaches a maximum as determined by the sysApplPastRunMaxRows,
-- or when an entry has aged to exceed a time limit as set be
-- sysApplPastRunTblTimeLimit.
--
-- When aging out entries, the oldest entry, as determined by

-- the value of sysApplPastRunTimeEnded, will be removed first.

sysApplPastRunTable OBJECT-TYPE
SYNTAX SEQUENCE OF SysApplPastRunEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A history of the applications that have previously run
on the host
computer. An entry's information is moved to
this table from the sysApplRunTable when the invoked
application represented by the entry ceases to be running.

An agent implementation can determine that an application
invocation is no longer running by evaluating the running
elements of the application instance and their Roles as
defined by sysApplInstallElmtRole. Obviously, if there
are no running elements for the application instance,
then the application invocation is no longer running.
If any one of the REQUIRED elements is not running,
the application instance may be in the process of exiting.

```
        Most agent implementations will wait until a second internal
        poll has been completed to give the system time to either
        restart partial failures or to give all elements time to
        exit.  If, after the second poll, there are REQUIRED
        elements that
are not running, then the application
        instance may be considered by the agent implementation
        to no longer be running.

        Entries remain in the sysApplPastRunTable until they
        are aged out when either the table size reaches a maximum
        as determined by the sysApplPastRunMaxRows, or when an entry
        has aged to exceed a time limit as set by
        sysApplPastRunTblTimeLimit.

        Entries in this table are indexed by sysApplInstallPkgIndex,
        sysApplPastRunIndex to facilitate retrieval of all past
        run invocations of a particular installed application."
    ::= { sysApplRun 2 }

sysApplPastRunEntry OBJECT-TYPE
    SYNTAX      SysApplPastRunEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row describing an invocation of an application
        which was previously run and has terminated.  The entry
        is basically copied from the sysApplRunTable
when the
        application instance terminates.  Hence, the entry's
        value for sysApplPastRunIndex is the same as its value was
        for sysApplRunIndex."
    INDEX    { sysApplInstallPkgIndex, sysApplPastRunIndex }
    ::= { sysApplPastRunTable   1 }

SysApplPastRunEntry ::= SEQUENCE {
    sysApplPastRunIndex                 Unsigned32,
    sysApplPastRunStarted               DateAndTime,
    sysApplPastRunExitState              INTEGER,
    sysApplPastRunTimeEnded               DateAndTime
}

sysApplPastRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An integer
```

```
        matching the value of the removed sysApplRunIndex
        corresponding to this row."
    ::= { sysApplPastRunEntry 1 }

sysApplPastRunStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS
     current
    DESCRIPTION
        "The date and time that the application was started."
    ::= { sysApplPastRunEntry 2 }

sysApplPastRunExitState OBJECT-TYPE
    SYNTAX      INTEGER {
                complete (1), -- normal exit at sysApplRunTimeEnded
                failed (2),   -- abnormal exit
                other (3)
                }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The state of the application instance when it terminated.
       This value is based on an evaluation of the running elements
       of an application and their Roles as defined by
       sysApplInstallElmtRole.  An application instance is said to
       have exited in a COMPLETE state and its entry is removed
       from the sysApplRunTable and added to the sysApplPastRunTable
       when the agent detects that ALL elements of an application
       invocation are no longer running.  Most agent implementations
       will wait
until a second internal poll has been completed to
       give the system time to either restart partial failures or
       to give all elements time to exit.  A failed state occurs if,
       after the second poll, any elements continue to run but
       one or more of the REQUIRED elements are no longer running.
       All other combinations MUST be defined as OTHER."
    ::= { sysApplPastRunEntry 3 }

sysApplPastRunTimeEnded OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The DateAndTime the application instance was determined
        to be no longer running."
    ::= { sysApplPastRunEntry 4 }
```

```
-- sysApplElmtRunTable
-- The sysApplElmtRunTable contains an entry for each process that
-- is currently running on the host.  An entry is created in
-- this table for each process at the time it is started, and will
-- remain in the table until the process terminates.
--
-- The table
is indexed by sysApplElmtRunInstallPkg,
-- sysApplElmtRunInvocID, and sysApplElmtRunIndex to make it easy
-- to locate all running elements of a particular invoked application
-- which has been installed on the system.


sysApplElmtRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplElmtRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The table describes the processes which are
      currently executing on the host system. Each entry
      represents a running process and is associated with
      the invoked application of which that process is a part, if
      possible.  This table contains an entry for every process
      currently running on the system, regardless of whether its
      'parent' application can be determined.  So, for example,
      processes like 'ps' and 'grep' will have entries though they
      are not associated with an installed application package.

      Because
a running application may involve
      more than one executable, it is possible to have
      multiple entries in this table for each application.
      Entries are removed from this table when the process
      terminates.
      The table is indexed by sysApplElmtRunInstallPkg,
      sysApplElmtRunInvocID, and sysApplElmtRunIndex to
      facilitate the retrieval of all running elements of a
      particular invoked application which has been installed on
      the system."
   ::= { sysApplRun 3 }

sysApplElmtRunEntry OBJECT-TYPE
   SYNTAX      SysApplElmtRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The logical row describing a process currently
      running on this host.  When possible, the entry is
```

```
        associated with the invoked application of which it
        is a part."
    INDEX    { sysApplElmtRunInstallPkg, sysApplElmtRunInvocID,
               sysApplElmtRunIndex
}
    ::= { sysApplElmtRunTable   1 }

SysApplElmtRunEntry ::= SEQUENCE {
    sysApplElmtRunInstallPkg       Unsigned32,
    sysApplElmtRunInvocID          Unsigned32,
    sysApplElmtRunIndex            Unsigned32,
    sysApplElmtRunInstallID        Unsigned32,
    sysApplElmtRunTimeStarted      DateAndTime,
    sysApplElmtRunState            RunState,
    sysApplElmtRunName             LongUtf8String,
    sysApplElmtRunParameters       Utf8String,
    sysApplElmtRunCPU              TimeTicks,
    sysApplElmtRunMemory           Gauge32,
    sysApplElmtRunNumFiles         Gauge32,
    sysApplElmtRunUser             Utf8String
}

sysApplElmtRunInstallPkg OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies the installed software package for
        the application of which this process
is a part.
        Provided that the process's 'parent' application can be
        determined, the value of this object is the same
        value as the sysApplInstallPkgIndex for the
        entry in the sysApplInstallPkgTable that corresponds
        to the installed application of which this process
        is a part.

        If, however, the 'parent' application cannot be
        determined, (for example the process is not part
        of a particular installed application), the value
        for this object is then '0', signifying that this
        process cannot be related back to an application,
        and in turn, an installed software package."
    ::= { sysApplElmtRunEntry 1 }

sysApplElmtRunInvocID OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
```

```
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies the invocation of an application of which
         this process is a part.  Provided that the 'parent'
        application can be determined, the value of this object
        is the same value as the sysApplRunIndex for the
        corresponding application invocation in the
        sysApplRunTable.

        If, however, the 'parent' application cannot be
        determined, the value for this object is then '0',
        signifying that this process cannot be related back
        to an invocation of an application in the
        sysApplRunTable."
    ::= { sysApplElmtRunEntry 2 }

sysApplElmtRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table.  A unique value
        for each process running on the host.  Wherever
        possible, this should be the system's native, unique
        identification number."
    ::= { sysApplElmtRunEntry 3 }


sysApplElmtRunInstallID
OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The index into the sysApplInstallElmtTable. The
        value of this object is the same value as the
        sysApplInstallElmtIndex for the application element
        of which this entry represents a running instance.
        If this process cannot be associated with an installed
        executable, the value should be '0'."
    ::= { sysApplElmtRunEntry 4 }

sysApplElmtRunTimeStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "The time the process was started."
    ::= { sysApplElmtRunEntry 5 }

sysApplElmtRunState OBJECT-TYPE
    SYNTAX      RunState
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current state of the running process. The
        possible values are running(1), runnable(2) but waiting
         for a resource such as CPU, waiting(3) for an event,
        exiting(4), or other(5)."
    ::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName OBJECT-TYPE
    SYNTAX      LongUtf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The full path and filename of the process.
        For example, '/opt/MYYpkg/bin/myyproc' would
        be returned for process 'myyproc' whose execution
        path is '/opt/MYYpkg/bin/myyproc'."
    ::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The starting parameters for the process."
::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
         "The number of centi-seconds of the total system's
         CPU resources consumed by this process.
 Note that
         on a multi-processor system, this value may
         have been incremented by more than one centi-second
         in one centi-second of real (wall clock) time."
    ::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory OBJECT-TYPE
```

```
    SYNTAX      Gauge32
    UNITS       "Kbytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total amount of real system memory measured in
        Kbytes currently allocated to this process."

    ::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles OBJECT-TYPE
    SYNTAX      Gauge32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of regular files currently open by the
        process.  Transport connections (sockets)
        should NOT be included in the calculation of
        this value, nor should operating system specific
        special file types."
    ::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE
     SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The process owner's login name (e.g. root)."
    ::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable
-- The sysApplElmtPastRunTable maintains a history of
-- processes which have previously executed on
-- the host as part of an application. Upon termination
-- of a process, the entry representing the process is removed from
-- the sysApplElmtRunTable and a corresponding entry is created in
-- this table provided that the process was part of an
-- identifiable application.  If the process could not be associated

-- with an invoked application, no corresponding entry is created.
-- Hence, whereas the sysApplElmtRunTable contains an entry for
-- every process currently executing on the system, the
-- sysApplElmtPastRunTable only contains entries for processes
-- that previously executed as part of an invoked application.
--
-- Entries
remain in this table until they are aged out when
-- either the number of entries in the table reaches a
```

```
-- maximum as determined by sysApplElmtPastRunMaxRows, or
-- when an entry has aged to exceed a time limit as set by
-- sysApplElmtPastRunTblTimeLimit.  When aging out entries,
-- the oldest entry, as determined by the value of
-- sysApplElmtPastRunTimeEnded, will be removed first.
--
-- The table is indexed by sysApplInstallPkgIndex (from the
-- sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and
-- sysApplElmtPastRunIndex to make it easy to locate all
-- previously executed processes of a particular invoked application
-- that has been installed on the system.


sysApplElmtPastRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplElmtPastRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The table describes the processes which have previously
      executed on the host system as part of an application.
       Each entry represents a process which has previously
      executed and is associated with the invoked application
      of which it was a part.  Because an invoked application
      may involve more than one executable, it is possible
      to have multiple entries in this table for
      each application invocation. Entries are added
      to this table when the corresponding process in the
      sysApplElmtRun Table terminates.

      Entries remain in this table until they are aged out when
      either the number of entries in the table reaches a
      maximum as determined by sysApplElmtPastRunMaxRows, or
      when an entry has aged to exceed a time limit as set by
      sysApplElmtPastRunTblTimeLimit.  When aging out entries,
      the oldest entry, as determined by the value of
      sysApplElmtPastRunTimeEnded, will be removed first.

      The table is indexed by sysApplInstallPkgIndex (from the
       sysApplInstallPkgTable), sysApplElmtPastRunInvocID,
      and sysApplElmtPastRunIndex to make it easy to locate all
      previously executed processes of a particular invoked
      application that has been installed on the system."
   ::= { sysApplRun 4 }

sysApplElmtPastRunEntry OBJECT-TYPE
   SYNTAX      SysApplElmtPastRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
```

```
    DESCRIPTION
        "The logical row describing a process which was
        previously executed on this host as part of an
        installed application.  The entry is basically copied
        from the sysApplElmtRunTable when the process
        terminates.  Hence, the entry's value for
        sysApplElmtPastRunIndex is the same as its value
        was for sysApplElmtRunIndex.  Note carefully: only those
        processes which could be associated with an
        identified application are included in this table."
    INDEX    { sysApplInstallPkgIndex,
sysApplElmtPastRunInvocID,
             sysApplElmtPastRunIndex }
    ::= { sysApplElmtPastRunTable   1 }

SysApplElmtPastRunEntry ::= SEQUENCE {
    sysApplElmtPastRunInvocID          Unsigned32,
    sysApplElmtPastRunIndex            Unsigned32,
    sysApplElmtPastRunInstallID        Unsigned32,
    sysApplElmtPastRunTimeStarted      DateAndTime,
    sysApplElmtPastRunTimeEnded        DateAndTime,
    sysApplElmtPastRunName             LongUtf8String,
    sysApplElmtPastRunParameters       Utf8String,
    sysApplElmtPastRunCPU              TimeTicks,
    sysApplElmtPastRunMemory           Unsigned32,
    sysApplElmtPastRunNumFiles         Unsigned32,
    sysApplElmtPastRunUser             Utf8String
}

sysApplElmtPastRunInvocID OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies
the invocation of an application of which
        the process represented by this entry was a part.
        The value of this object is the same value as the
        sysApplRunIndex for the corresponding application
        invocation in the sysApplRunTable.  If the invoked
        application as a whole has terminated, it will be the
        same as the sysApplPastRunIndex."
    ::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
```

```
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An integer
        assigned by the agent equal to the corresponding
        sysApplElmtRunIndex which was removed from the
        sysApplElmtRunTable and moved to this table
        when the element terminated.

        Note: entries in this table are indexed by
        sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.
        The possibility
exists, though unlikely, of a
        collision occurring by a new entry which was run
        by the same invoked application (InvocID), and
        was assigned the same process identification number
        (ElmtRunIndex) as an element which was previously
        run by the same invoked application.

        Should this situation occur, the new entry replaces
        the old entry.

        See Section: 'Implementation Issues -
        sysApplElmtPastRunTable Entry Collisions' for the
        conditions that would have to occur in order for a
        collision to occur."
    ::= { sysApplElmtPastRunEntry 2 }


sysApplElmtPastRunInstallID OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The index into the installed element table. The
        value of this object is the same value as the
        sysApplInstallElmtIndex for the application element

of which this entry represents a previously executed
        process."
    ::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The time the process was started."
    ::= { sysApplElmtPastRunEntry 4 }
```

```
sysApplElmtPastRunTimeEnded OBJECT-TYPE
   SYNTAX      DateAndTime
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The time the process ended."
   ::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName OBJECT-TYPE
   SYNTAX      LongUtf8String
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The full path and filename of the process.
      For example, '/opt/MYYpkg/bin/myyproc' would
      be returned for process 'myyproc' whose execution
      path was '/opt/MYYpkg/bin/myyproc'."
   ::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters
OBJECT-TYPE
   SYNTAX      Utf8String
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The starting parameters for the process."
   ::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU OBJECT-TYPE
   SYNTAX      TimeTicks
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
       "The last known number of centi-seconds of the total
       system's CPU resources consumed by this process.
       Note that on a multi-processor system, this value may
       increment by more than one centi-second in one
       centi-second of real (wall clock) time."
   ::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE
   SYNTAX      Unsigned32 (0..'ffffffff'h)
   UNITS       "Kbytes"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The last known total amount of real system memory
```

```
        measured in Kbytes allocated to this process before it

     terminated."
    ::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The last known number of files open by the
        process before it terminated.  Transport
        connections (sockets) should NOT be included in
        the calculation of this value."
    ::= { sysApplElmtPastRunEntry 10 }

sysApplElmtPastRunUser OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The process owner's login name (e.g. root)."
    ::= { sysApplElmtPastRunEntry 11 }


-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum number of entries allowed in the
        sysApplPastRunTable.
Once the number of rows in
        the sysApplPastRunTable reaches this value, the
        management subsystem will remove the oldest entry
        in the table to make room for the new entry to be added.
        Entries will be removed on the basis of oldest
        sysApplPastRunTimeEnded value first.

        This object may be used to control the amount of
        system resources that can used for sysApplPastRunTable
        entries. A conforming implementation should attempt
        to support the default value, however, a lesser value
        may be necessary due to implementation-dependent issues
        and resource availability."
    DEFVAL      { 500 }
```

```
    ::= { sysApplRun 5 }

sysApplPastRunTableRemItems OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A counter of the number of entries removed from
        the sysApplPastRunTable because of table size limitations

    as set in sysApplPastRunMaxRows.  This counter is the
        number of entries the management subsystem has had to
        remove in order to make room for new entries (so as not
        to exceed the limit set by sysApplPastRunMaxRows) since
        the last initialization of the management subsystem."
    ::= { sysApplRun 6 }

sysApplPastRunTblTimeLimit OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum time in seconds which an entry in the
        sysApplPastRunTable may exist before it is removed.
        Any entry that is older than this value will be
        removed (aged out) from the table.

        Note that an entry may be aged out prior to reaching
        this time limit if it is the oldest entry in the
        table and must be removed to make space for a new
        entry so as to not exceed sysApplPastRunMaxRows."
     DEFVAL      { 7200 }
    ::= { sysApplRun 7 }

sysApplElemPastRunMaxRows OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum number of entries allowed in the
        sysApplElmtPastRunTable.  Once the number of rows in
        the sysApplElmtPastRunTable reaches this value,
        the management subsystem will remove the oldest entry
        to make room for the new entry to be added.  Entries
        will be removed on the basis of oldest
        sysApplElmtPastRunTimeEnded value first.
        This object may be used to control the amount of
```

```
        system resources that can used for sysApplElemPastRunTable
        entries. A conforming implementation should attempt
        to support the default value, however, a lesser value
        may be necessary due to implementation-dependent issues
        and resource availability."
    DEFVAL
    { 500 }
    ::= { sysApplRun 8 }

sysApplElemPastRunTableRemItems OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A counter of the number of entries removed from the
        sysApplElemPastRunTable because of table size limitations
        as set in sysApplElemPastRunMaxRows.  This counter is the
        number of entries the management subsystem has had to
        remove in order to make room for new entries (so as not
        to exceed the limit set by sysApplElemPastRunMaxRows) since
        the last initialization of the management subsystem."
    ::= { sysApplRun 9 }

sysApplElemPastRunTblTimeLimit OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum time in seconds which an entry in the
         sysApplElemPastRunTable may exist before it is removed.

        Any entry that is older than this value will be
         removed (aged out) from the table.

         Note that an entry may be aged out prior to reaching
         this time limit if it is the oldest entry in the
         table and must be removed to make space for a new
         entry so as to not exceed sysApplElemPastRunMaxRows."
    DEFVAL      { 7200 }
    ::= { sysApplRun 10 }

sysApplAgentPollInterval  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
```

"The minimum interval in seconds that the management
subsystem implementing this MIB will poll the status
of the managed resources. Because of the non-trivial
effort involved in polling the managed resources,
and because the method for obtaining the status of
the managed resources is implementation-dependent,
a conformant implementation
may chose a lower bound
greater than 0.

A value of 0 indicates that there is no delay
in the passing of information from the managed
resources to the agent."
DEFVAL { 60 }
::= { sysApplRun 11 }

-- sysApplMap Group
-- This group contains a table, the sysApplMapTable,
-- whose sole purpose is to provide a 'backwards'
-- mapping so that, given a known sysApplElmtRunIndex
-- (process identification number), the corresponding invoked
-- application (sysApplRunIndex), installed element
-- (sysApplInstallElmtIndex), and installed application
-- package (sysApplInstallPkgIndex) can be quickly determined.
--
-- The table will contain one entry for each process
-- currently running on the system.
--
-- A backwards mapping is extremely useful since the tables
-- in this MIB module are typically indexed with the
-- installed application package (sysApplInstallPkgIndex)
-- as the primary key, and on down
as required by the
-- specific table, with the process ID number (sysApplElmtRunIndex)
-- being the least significant key.
--
-- It is expected that management applications will use
-- this mapping table by doing a 'GetNext' operation with
-- the known process ID number (sysApplElmtRunIndex) as the partial
-- instance identifier. Assuming that there is an entry for
-- the process, the result should return a single columnar value,
-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,
-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the
-- instance identifier for the returned MIB object value.
--
-- NOTE: if the process can not be associated back to an
-- invoked application installed on the system, then the

```
-- value returned for the columnar value sysApplMapInstallPkgIndex
-- will be '0' and the instance portion of the object-identifier
-- will be the process ID number (sysApplElmtRunIndex) followed

-- by 0.0.

sysApplMapTable
OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplMapEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The sole purpose of this table is to provide a
      'backwards' mapping so that, given a known
      sysApplElmtRunIndex (process identification number),
      the corresponding invoked application (sysApplRunIndex),
      installed element (sysApplInstallElmtIndex), and
      installed application package (sysApplInstallPkgIndex)
      can be quickly determined.

      This table will contain one entry for each process
      that is currently executing on the system.

      It is expected that management applications will use
      this mapping table by doing a 'GetNext' operation with
      the known process ID number (sysApplElmtRunIndex) as the
      partial instance identifier.  Assuming that there is an
      entry for the process, the result should return a single
      columnar
value, the sysApplMapInstallPkgIndex, with the
      sysApplElmtRunIndex, sysApplRunIndex, and
      sysApplInstallElmtIndex contained in the instance identifier
      for the returned MIB object value.

      NOTE: if the process can not be associated back to an
      invoked application installed on the system, then the
      value returned for the columnar value
      sysApplMapInstallPkgIndex will be '0' and the instance
      portion of the object-identifier will be the process ID
      number (sysApplElmtRunIndex) followed by 0.0."
   ::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE
   SYNTAX      SysApplMapEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A logical row representing a process currently running
```

```
        on the system.  This entry provides the index mapping from
        process identifier, back to the invoked application,
        installed element, and finally, the
installed application
        package.  The entry includes only one accessible columnar
        object, the sysApplMapInstallPkgIndex, but the
        invoked application and installed element can be
        determined from the instance identifier since they form
        part of the index clause."
    INDEX  { sysApplElmtRunIndex, sysApplElmtRunInvocID,
             sysApplMapInstallElmtIndex }
    ::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {
    sysApplMapInstallElmtIndex    Unsigned32,
    sysApplMapInstallPkgIndex     Unsigned32
}

sysApplMapInstallElmtIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index into the sysApplInstallElmtTable. The
        value of this object is the same value as the
        sysApplInstallElmtIndex for the application element
        of which this entry represents a running instance.
        If this
process cannot be associated to an installed
        executable, the value should be '0'."
    ::= { sysApplMapEntry 1 }

sysApplMapInstallPkgIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of this object identifies the installed
        software package for the application of which this
        process is a part.  Provided that the process's 'parent'
        application can be determined, the value of this object
        is the same value as the sysApplInstallPkgIndex for the
        entry in the sysApplInstallPkgTable that corresponds
        to the installed application of which this process
        is a part.

        If, however, the 'parent' application cannot be
        determined, (for example the process is not part
```

```
        of a particular installed application), the value
        for this object is then '0', signifying that this

 process cannot be related back to an application,
        and in turn, an installed software package."
    ::= { sysApplMapEntry 2 }


-- Conformance Macros
sysApplMIBCompliances  OBJECT IDENTIFIER ::= { sysApplConformance 1 }
sysApplMIBGroups       OBJECT IDENTIFIER ::= { sysApplConformance 2 }

sysApplMIBCompliance MODULE-COMPLIANCE
    STATUS  current
    DESCRIPTION
        "Describes the requirements for conformance to
        the System Application MIB"
    MODULE  -- this module
        MANDATORY-GROUPS { sysApplInstalledGroup,
                           sysApplRunGroup, sysApplMapGroup }
    ::= { sysApplMIBCompliances 1 }

sysApplInstalledGroup OBJECT-GROUP
    OBJECTS { sysApplInstallPkgManufacturer,
              sysApplInstallPkgProductName,
              sysApplInstallPkgVersion,
              sysApplInstallPkgSerialNumber,
              sysApplInstallPkgDate,
              sysApplInstallPkgLocation,
              sysApplInstallElmtName,
               sysApplInstallElmtType,
              sysApplInstallElmtDate,
              sysApplInstallElmtPath,
              sysApplInstallElmtSizeHigh,
              sysApplInstallElmtSizeLow,
              sysApplInstallElmtRole,
              sysApplInstallElmtModifyDate,
              sysApplInstallElmtCurSizeHigh,
              sysApplInstallElmtCurSizeLow }
    STATUS  current
    DESCRIPTION
        "The system application installed group contains
        information about applications and their constituent
        components which have been installed on the host system."
    ::= { sysApplMIBGroups 1 }

sysApplRunGroup OBJECT-GROUP
    OBJECTS { sysApplRunStarted,
```

```
            sysApplRunCurrentState,
            sysApplPastRunStarted,
            sysApplPastRunExitState,
            sysApplPastRunTimeEnded,
            sysApplElmtRunInstallID,
            sysApplElmtRunTimeStarted,
            sysApplElmtRunState,
             sysApplElmtRunName,
            sysApplElmtRunParameters,
            sysApplElmtRunCPU,
            sysApplElmtRunMemory,
            sysApplElmtRunNumFiles,
            sysApplElmtRunUser,
            sysApplElmtPastRunInstallID,
            sysApplElmtPastRunTimeStarted,
            sysApplElmtPastRunTimeEnded,
            sysApplElmtPastRunName,
            sysApplElmtPastRunParameters,
            sysApplElmtPastRunCPU,
            sysApplElmtPastRunMemory,
            sysApplElmtPastRunNumFiles,
            sysApplElmtPastRunUser,
            sysApplPastRunMaxRows,
            sysApplPastRunTableRemItems,
            sysApplPastRunTblTimeLimit,
            sysApplElemPastRunMaxRows,
            sysApplElemPastRunTableRemItems,
            sysApplElemPastRunTblTimeLimit,
            sysApplAgentPollInterval }
    STATUS  current
    DESCRIPTION
        "The system application
run group contains information
        about applications and associated elements which have
        run or are currently running on the host system."
    ::= { sysApplMIBGroups 2 }

sysApplMapGroup OBJECT-GROUP
    OBJECTS { sysApplMapInstallPkgIndex }
    STATUS  current
    DESCRIPTION
        "The Map Group contains a single table, sysApplMapTable,
        that provides a backwards mapping for determining the
        invoked application, installed element, and installed
        application package given a known process identification
        number."
::= { sysApplMIBGroups 3 }
```

```
 END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-MIB
No license file was found, but licenses were detected in source scan.

```
IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, mib-2
     FROM SNMPv2-SMI          -- [RFC2578]
  TEXTUAL-CONVENTION
     FROM SNMPv2-TC;          -- [RFC2579]



ianaItuAlarmNumbers MODULE-IDENTITY
    LAST-UPDATED "200409090000Z"  -- September 09, 2004
    ORGANIZATION "IANA"
    CONTACT-INFO
       "Postal:    Internet Assigned Numbers Authority
                   Internet Corporation for Assigned Names
                   and Numbers
                   4676 Admiralty Way, Suite 330
                   Marina del Rey, CA 90292-6601
                   USA

       Tel:    +1  310-823-9358
       E-Mail: iana@iana.org"
    DESCRIPTION
       "The MIB module defines the ITU Alarm
       textual convention for objects expected to require
       regular extension.

       Copyright (C) The Internet Society (2004).  The
       initial version of this MIB module
 was published
       in RFC 3877.  For full legal notices see the RFC
       itself.  Supplementary information may be available on:
       http://www.ietf.org/copyrights/ianamib.html"
     REVISION    "200409090000Z"  -- September 09, 2004
     DESCRIPTION
        "Initial version, published as RFC 3877."
    ::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION
   STATUS current
   DESCRIPTION
```

"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.
IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a
first-come, first served basis and will be assigned
enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and
sufficiently descriptive.

While some effort will be taken to ensure that new probable
causes do not conceptually duplicate existing probable
causes it is acknowledged that the existence of conceptual
duplicates in the starting probable cause list is an known
industry reality.

To aid IANA in the administration of probable cause names
and values, the OPS Area Director will appoint one or more
experts to help review requests.

See http://www.iana.org"
REFERENCE
"ITU Recommendation M.3100, 'Generic Network Information
Model', 1995
ITU Recommendation X.733, 'Information Technology
- Open
Systems Interconnection - System Management: Alarm
Reporting Function', 1992
ITU Recommendation X.736, 'Information Technology - Open
Systems Interconnection - System Management: Security
Alarm Reporting Function', 1992"

SYNTAX INTEGER
{
-- The following probable causes were defined in M.3100
aIS (1),

```
        callSetUpFailure  (2),
        degradedSignal  (3),
        farEndReceiverFailure  (4),
        framingError  (5),
        lossOfFrame (6),
        lossOfPointer  (7),
        lossOfSignal  (8),
        payloadTypeMismatch (9),
        transmissionError (10),
        remoteAlarmInterface (11),
        excessiveBER  (12),
        pathTraceMismatch  (13),
        unavailable  (14),
        signalLabelMismatch (15),
        lossOfMultiFrame (16),
        receiveFailure (17),

    transmitFailure (18),
        modulationFailure (19),
        demodulationFailure (20),
        broadcastChannelFailure (21),


        connectionEstablishmentError (22),
        invalidMessageReceived (23),
        localNodeTransmissionError (24),
        remoteNodeTransmissionError (25),
        routingFailure (26),

--Values 27-50 are reserved for communications alarm related
--probable causes
-- The following are used with equipment alarm.

        backplaneFailure (51),
        dataSetProblem  (52),
        equipmentIdentifierDuplication  (53),
        externalIFDeviceProblem  (54),
        lineCardProblem (55),
        multiplexerProblem  (56),
        nEIdentifierDuplication  (57),
        powerProblem  (58),
        processorProblem  (59),
        protectionPathFailure  (60),
        receiverFailure  (61),
        replaceableUnitMissing  (62),
        replaceableUnitTypeMismatch
(63),
        synchronizationSourceMismatch  (64),
```

```
        terminalProblem   (65),
        timingProblem   (66),
        transmitterFailure  (67),
        trunkCardProblem  (68),
        replaceableUnitProblem  (69),
        realTimeClockFailure (70),
--An equipment alarm to be issued if the system detects that the
--real time clock has failed
        antennaFailure (71),
        batteryChargingFailure (72),
        diskFailure (73),
        frequencyHoppingFailure (74),
        iODeviceError (75),
        lossOfSynchronisation (76),
        lossOfRedundancy (77),
        powerSupplyFailure (78),
        signalQualityEvaluationFailure (79),
        tranceiverFailure (80),
        protectionMechanismFailure (81),
        protectingResourceFailure (82),
-- Values 83-100 are reserved for equipment alarm related probable
-- causes
-- The following are used with environmental alarm.
         airCompressorFailure  (101),


        airConditioningFailure  (102),
        airDryerFailure   (103),
        batteryDischarging  (104),
        batteryFailure   (105),
        commercialPowerFailure  (106),
        coolingFanFailure  (107),
        engineFailure  (108),
        fireDetectorFailure  (109),
        fuseFailure  (110),
        generatorFailure  (111),
        lowBatteryThreshold (112),
        pumpFailure  (113),
        rectifierFailure  (114),
        rectifierHighVoltage  (115),
        rectifierLowFVoltage  (116),
        ventilationsSystemFailure  (117),
        enclosureDoorOpen  (118),
        explosiveGas  (119),
        fire (120),
        flood   (121),
        highHumidity  (122),
        highTemperature  (123),
```

```
        highWind  (124),
        iceBuildUp  (125),
        intrusionDetection  (126),
        lowFuel
 (127),
        lowHumidity  (128),
        lowCablePressure  (129),
        lowTemperatue  (130),
        lowWater  (131),
        smoke  (132),
        toxicGas  (133),
        coolingSystemFailure (134),
        externalEquipmentFailure (135),
        externalPointFailure (136),
-- Values 137-150 are reserved for environmental alarm related
-- probable causes
-- The following are used with Processing error alarm.
        storageCapacityProblem (151),
        memoryMismatch  (152),
        corruptData  (153),
        outOfCPUCycles   (154),
        sfwrEnvironmentProblem  (155),
        sfwrDownloadFailure  (156),
        lossOfRealTimel (157),
--A processing error alarm to be issued after the system has
--reinitialised.  This will indicate
--to the management systems that the view they have of the managed


--system may no longer
--be valid.  Usage example: The managed
--system issues this alarm
 after a reinitialization with severity
--warning to inform the
--management system about the event.  No clearing notification will
--be sent.
        applicationSubsystemFailure (158),
        configurationOrCustomisationError (159),
        databaseInconsistency (160),
        fileError (161),
        outOfMemory (162),
        softwareError (163),
        timeoutExpired (164),
        underlayingResourceUnavailable (165),
        versionMismatch (166),
--Values 168-200 are reserved for processing error alarm related
-- probable causes.
        bandwidthReduced (201),
```

```
        congestion (202),
        excessiveErrorRate (203),
        excessiveResponseTime (204),
        excessiveRetransmissionRate (205),
        reducedLoggingCapability (206),
        systemResourcesOverload (207 ),
        -- The following were defined X.733
        adapterError (500),
        applicationSubsystemFailture
(501),
        bandwidthReducedX733 (502),
        callEstablishmentError (503),
        communicationsProtocolError (504),
        communicationsSubsystemFailure (505),
        configurationOrCustomizationError (506),
        congestionX733 (507),
        coruptData (508),
        cpuCyclesLimitExceeded (509),
        dataSetOrModemError (510),
        degradedSignalX733 (511),
        dteDceInterfaceError (512),
        enclosureDoorOpenX733 (513),
        equipmentMalfunction (514),
        excessiveVibration (515),
        fileErrorX733 (516),
        fireDetected (517),
        framingErrorX733 (518),
        heatingVentCoolingSystemProblem (519),
        humidityUnacceptable (520),
        inputOutputDeviceError (521),
        inputDeviceError (522),


        lanError (523),
        leakDetected (524),
        localNodeTransmissionErrorX733 (525),

    lossOfFrameX733 (526),
        lossOfSignalX733 (527),
        materialSupplyExhausted (528),
        multiplexerProblemX733 (529),
        outOfMemoryX733 (530),
        ouputDeviceError (531),
        performanceDegraded (532),
        powerProblems (533),
        pressureUnacceptable (534),
        processorProblems (535),
        pumpFailureX733 (536),
```

```
            queueSizeExceeded (537),
            receiveFailureX733 (538),
            receiverFailureX733 (539),
            remoteNodeTransmissionErrorX733 (540),
            resourceAtOrNearingCapacity (541),
            responseTimeExecessive (542),
            retransmissionRateExcessive (543),
            softwareErrorX733 (544),
            softwareProgramAbnormallyTerminated (545),
            softwareProgramError (546),
            storageCapacityProblemX733 (547),
            temperatureUnacceptable (548),
            thresholdCrossed (549),
            timingProblemX733
(550),
            toxicLeakDetected (551),
            transmitFailureX733 (552),
            transmiterFailure (553),
            underlyingResourceUnavailable (554),
            versionMismatchX733 (555),
            -- The following are defined in X.736
            authenticationFailure (600),
            breachOfConfidentiality (601),
            cableTamper (602),
            delayedInformation (603),
            denialOfService (604),
            duplicateInformation (605),
            informationMissing (606),
            informationModificationDetected (607),
            informationOutOfSequence (608),
            keyExpired (609),
            nonRepudiationFailure (610),
            outOfHoursActivity (611),
            outOfService (612),
            proceduralError (613),


            unauthorizedAccessAttempt (614),
            unexpectedInformation (615),

            other (1024)
            }

IANAItuEventType ::= TEXTUAL-CONVENTION
    STATUS current
   DESCRIPTION
          "The ITU event Type values.
```

```
        The Internet Assigned Number Authority (IANA) is
        responsible for the assignment of the enumerations
        in this TC.

        Request should  come in the form of well-formed
        SMI [RFC2578] for enumeration names that are unique
        and sufficiently descriptive.

        See http://www.iana.org "
    REFERENCE
        "ITU Recommendation X.736, 'Information Technology - Open
        Systems Interconnection - System Management: Security
        Alarm Reporting Function', 1992"
    SYNTAX      INTEGER
        {
        other (1),
        communicationsAlarm (2),
        qualityOfServiceAlarm (3),
        processingErrorAlarm (4),
        equipmentAlarm (5),
        environmentalAlarm (6),
        integrityViolation (7),
        operationalViolation (8),
        physicalViolation (9),
        securityServiceOrMechanismViolation
(10),
        timeDomainViolation (11)
        }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB
No license file was found, but licenses were detected in source scan.

PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS
    MODULE-IDENTITY,
    OBJECT-TYPE,
    OBJECT-IDENTITY,
    Unsigned32,
    Counter32,
    NOTIFICATION-TYPE,
    mib-2
        FROM SNMPv2-SMI                 -- [RFC2578]
    TEXTUAL-CONVENTION,
    RowStatus,
```

```
TruthValue
    FROM SNMPv2-TC                  -- [RFC2579]
OBJECT-GROUP,
MODULE-COMPLIANCE,
NOTIFICATION-GROUP
    FROM SNMPv2-CONF                -- [RFC2580]
InetAddressType,
InetAddress
    FROM INET-ADDRESS-MIB           -- [RFC4001]
sysDescr
    FROM SNMPv2-MIB                 -- [RFC3418]
SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB         -- [RFC3411]
docsDevSoftwareGroupV2
    FROM DOCS-CABLE-DEVICE-MIB      -- [RFC4639]
DocsX509ASN1DEREncodedCertificate,
docsBpi2CodeDownloadGroup
    FROM DOCS-IETF-BPI2-MIB         -- [RFC4131]
LongUtf8String
     FROM SYSAPPL-MIB               -- [RFC2287]
ifPhysAddress
    FROM IF-MIB;                    -- [RFC2863]

pktcIetfMtaMib MODULE-IDENTITY
LAST-UPDATED "200609180000Z" -- September 18, 2006
ORGANIZATION "IETF IP over Cable Data Network Working Group"
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IETF IPCDN Working Group
    General Discussion: ipcdn@ietf.org
```

```
        Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
        Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
        Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
         Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"

    DESCRIPTION
      "This MIB module defines the basic management object
       for the Multimedia Terminal Adapter devices compliant
       with PacketCable and IPCablecom requirements.

       Copyright (C) The IETF Trust (2006).  This version of
       this MIB module is part of RFC 4682; see the RFC itself for
       full legal notices."

    REVISION    "200609180000Z"   -- September 18, 2006

    DESCRIPTION
      "Initial version, published as RFC 4682."

  ::=  { mib-2 140 }

    -- Textual Conventions

  PktcMtaDevProvEncryptAlg  ::= TEXTUAL-CONVENTION
    STATUS      current
    DESCRIPTION
        " This textual convention defines various types of the
          encryption algorithms used for the encryption of the MTA
          configuration file.  The description of the encryption
          algorithm for each enumerated value is as follows:

          'none(0)'           no encryption
   is used,
          'des64CbcMode(1)'    DES 64-bit key in CBC mode,



          't3Des192CbcMode(2)' 3DES 192-bit key in CBC mode,
          'aes128CbcMode(3)'   AES 128-bit key in CBC mode,
          'aes256CbcMode(4)'   AES 256-bit key in CBC mode."
    SYNTAX      INTEGER  {
                none            (0),
                des64CbcMode     (1),
                t3Des192CbcMode  (2),
                aes128CbcMode    (3),
                aes256CbcMode    (4)
    }
```

```
--================================================================
-- The MTA MIB module only supports a single Provisioning Server.
--================================================================

pktcMtaNotification OBJECT IDENTIFIER ::= { pktcIetfMtaMib 0 }
pktcMtaMibObjects  OBJECT IDENTIFIER ::= { pktcIetfMtaMib 1 }
pktcMtaDevBase     OBJECT IDENTIFIER ::= { pktcMtaMibObjects 1 }
pktcMtaDevServer   OBJECT IDENTIFIER ::= { pktcMtaMibObjects 2 }
pktcMtaDevSecurity OBJECT IDENTIFIER ::= { pktcMtaMibObjects 3
 }
pktcMtaDevErrors   OBJECT IDENTIFIER ::= { pktcMtaMibObjects 4 }
pktcMtaConformance  OBJECT IDENTIFIER ::= { pktcIetfMtaMib 2 }

--
-- The following pktcMtaDevBase group describes the base MTA objects
--

pktcMtaDevResetNow  OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object controls the MTA software reset.
       Reading this object always returns 'false'.  Setting this
       object to 'true' causes the device to reset immediately
       and the following actions to occur:
          1.  All connections (if present) are flushed locally.
          2.  All current actions such as ringing immediately
              terminate.
          3.  Requests for signaling notifications, such as
              notification based on digit map recognition, are
              flushed.
          4.  All endpoints are disabled.
          5.  The provisioning flow is started at step MTA-1.

    If a value is written into an instance of
       pktcMtaDevResetNow, the agent MUST NOT retain the supplied
       value across MTA re-initializations or reboots."
  REFERENCE




     " PacketCable MTA Device Provisioning Specification."
  ::= { pktcMtaDevBase 1 }

pktcMtaDevSerialNumber OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
     " This object specifies the manufacturer's serial
       number of this MTA.  The value of this object MUST be
       identical to the value specified in DHCP option 43,
       sub-option 4.  The list of sub-options for DHCP option
       43 are defined in the PacketCable MTA Device
       Provisioning Specification."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification."
  ::= { pktcMtaDevBase 2 }

pktcMtaDevSwCurrentVers OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      " This object identifies the software version currently
       operating in the MTA.
       The MTA MUST return a string descriptive of the current
       software load.  This object should use the syntax
       defined by the individual vendor to identify the software
       version.  The data presented in this object MUST be
       identical to the software version information contained
       in the 'sysDescr' MIB object of the MTA.  The value of
       this object MUST be identical to the value specified in
       DHCP option 43, sub-option 6.  The list of sub-options for
       DHCP option 43 are defined in the PacketCable MTA Device
       Provisioning Specification."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 3 }

pktcMtaDevFQDN      OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the Fully Qualified
 Domain Name for
       this MTA.  The MTA FQDN is used to uniquely identify the
       device to the PacketCable back office elements."



  ::= { pktcMtaDevBase 4 }
```

```
pktcMtaDevEndPntCount     OBJECT-TYPE
  SYNTAX      Unsigned32 (1..255)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the number of physical endpoints for
       this MTA."
  ::= { pktcMtaDevBase 5 }

pktcMtaDevEnabled     OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      " This object contains the MTA Admin Status of this device.
        If this object is set to 'true', the MTA is
        administratively enabled, and the MTA MUST be able to
        interact with the PacketCable entities, such as CMS,
        Provisioning Server, KDC, and other MTAs and MGs on all
        PacketCable interfaces.
        If this object is set to 'false', the MTA is
        administratively
 disabled, and the MTA MUST perform the
        following actions for all endpoints:
           - Shut down all media sessions, if present.
           - Shut down Network Control Signaling (NCS)
           signaling by following the Restart in
           Progress procedures in the PacketCable NCS
           specification.
        The MTA must execute all actions required to
        enable or disable the telephony services for all
        endpoints immediately upon receipt of an SNMP SET
        operation.

        Additionally, the MTA MUST maintain the SNMP Interface
        for management and also the SNMP Key management interface.
        Also, the MTA MUST NOT continue Kerberized key management
        with CMSes until this object is set to 'true'.
        Note: MTAs MUST renew the CMS Kerberos tickets according
        to the PacketCable Security or IPCablecom Specification.
        If a value is written into an instance
 of
        pktcMtaDevEnabled, the agent MUST NOT retain the supplied
        value across MTA re-initializations or reboots."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification;
       PacketCable Security Specification;
       PacketCable Network-Based Call Signaling Protocol
```

```
        Specification."
    ::= { pktcMtaDevBase 6 }

pktcMtaDevTypeIdentifier     OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This object provides the MTA device type identifier.  The
          value of this object must be a copy of the DHCP option 60
          value exchanged between the MTA and the DHCP server.  The
          DHCP option 60 value contains an ASCII-encoded string
          identifying capabilities of the MTA as defined in the
          PacketCable MTA Device Provisioning Specification."
    REFERENCE
        " RFC 2132, DHCP Options and BOOTP Vendor Extensions;
          PacketCable
   MTA Device Provisioning Specification."
    ::= { pktcMtaDevBase 7 }

pktcMtaDevProvisioningState     OBJECT-TYPE
    SYNTAX      INTEGER {
                pass                    (1),
                inProgress              (2),
                failConfigFileError     (3),
                passWithWarnings        (4),
                passWithIncompleteParsing (5),
                failureInternalError    (6),
                failureOtherReason      (7)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This object indicates the completion state of the MTA
          device provisioning process.

          pass:
          If the configuration file could be parsed successfully
          and the MTA is able to reflect the same in its
          MIB, the MTA MUST return the value 'pass'.

          inProgress:
          If the MTA is in the process of being provisioned,
          the MTA MUST return the value 'inProgress'.
```

failConfigFileError:
If the configuration file was in error due to incorrect
values in the mandatory parameters, the MTA MUST reject
the configuration file, and the MTA MUST return the value

'failConfigFileError'.

passWithWarnings:
If the configuration file had proper values for all the
mandatory parameters but has errors in any of the optional
parameters (this includes any vendor-specific Object
Identifiers (OIDs) that are incorrect or not known
to the MTA), the MTA MUST return the value
'passWithWarnings'.

passWithIncompleteParsing:
If the configuration file is valid but the MTA cannot
reflect the same in its configuration (for example, too
many entries caused memory exhaustion), it must accept
the CMS configuration entries related, and the MTA MUST
return the value 'passWithIncompleteParsing'.

failureInternalError:
If the configuration file cannot be parsed due to an
Internal error, the MTA MUST return the value
'failureInternalError'.

failureOtherReason:
If the MTA cannot accept the configuration file for any
other reason than the ones stated above, the MTA MUST
return the value 'failureOtherReason'.

When a final SNMP INFORM is sent as part of Step 25 of the
MTA Provisioning process, this parameter is also included
in the final INFORM message."
REFERENCE
" PacketCable MTA Device Provisioning Specification."
::= { pktcMtaDevBase 8 }

pktcMtaDevHttpAccess OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object indicates whether the HTTP protocol is
supported for the MTA configuration file transfer."

```
  ::= { pktcMtaDevBase 9 }

pktcMtaDevProvisioningTimer  OBJECT-TYPE
  SYNTAX      Unsigned32
 (0..30)
  UNITS       "minutes"
  MAX-ACCESS  read-write
  STATUS      current



  DESCRIPTION
     " This object defines the time interval for the provisioning
       flow to complete.  The MTA MUST finish all provisioning
       operations starting from the moment when an MTA receives
       its DHCP ACK and ending at the moment when the MTA
       downloads its configuration file (e.g., MTA5 to MTA23)
       within the period of time set by this object.
       Failure to comply with this condition constitutes
       a provisioning flow failure.  If the object is set to 0,
       the MTA MUST ignore the provisioning timer condition.
       If a value is written into an instance of
       pktcMtaDevProvisioningTimer, the agent MUST NOT retain the
       supplied value across MTA re-initializations or reboots."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification."
  DEFVAL {10}
  ::=  {pktcMtaDevBase 10}

pktcMtaDevProvisioningCounter
 OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
         "This object counts the number of times the
         provisioning cycle has looped through step MTA-1."
    ::= {pktcMtaDevBase 11}

pktcMtaDevErrorOidsTable  OBJECT-TYPE
  SYNTAX SEQUENCE OF PktcMtaDevErrorOidsEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     " This table contains the list of configuration errors or
       warnings the MTA encountered when parsing the
       configuration file it received from the Provisioning
       Server.
```

```
        For each error, an entry is created in this table,
        containing the configuration parameters the MTA rejected
        and the associated reason (e.g., wrong or unknown OID,
        inappropriate object values).  If the MTA
        did not report a provisioning state of 'pass(1)' in
        the pktcMtaDevProvisioningState object, this
 table MUST be
        populated for each error or warning instance.  Even if
        different parameters share the same error type (e.g., all
        realm name configuration parameters are invalid), all
        observed errors or warnings must be reported as
        different instances.  Errors are placed into the table in
        no particular order.  The table MUST be cleared each time




        the MTA reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification."
    ::= {pktcMtaDevBase 12 }

pktcMtaDevErrorOidsEntry  OBJECT-TYPE
    SYNTAX PktcMtaDevErrorOidsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
       " This entry contains the necessary information the MTA MUST
        attempt to provide in case of configuration file errors or
        warnings."
    INDEX { pktcMtaDevErrorOidIndex }
          ::= {pktcMtaDevErrorOidsTable 1}

PktcMtaDevErrorOidsEntry ::= SEQUENCE {
    pktcMtaDevErrorOidIndex Unsigned32,
     pktcMtaDevErrorOid      SnmpAdminString,
    pktcMtaDevErrorValue    SnmpAdminString,
    pktcMtaDevErrorReason   SnmpAdminString
    }

pktcMtaDevErrorOidIndex  OBJECT-TYPE
    SYNTAX      Unsigned32 (1..1024)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
       " This object is the index of the MTA configuration error
        table.  It is an integer value that starts at value '1'
        and is incremented for each encountered configuration
        file error or warning.
```

The maximum number of errors or warnings that can be
recorded in the pktcMtaDevErrorOidsTable is set to 1024 as
a configuration file is usually validated by operators
before deployment. Given the possible number of
configuration parameter assignments in the MTA
configuration file, 1024 is perceived as a sufficient
limit even with future extensions.

If the number of the errors in the configuration
file
exceeds 1024, all errors beyond the 1024th one MUST
be ignored and not be reflected in the
pktcMtaDevErrorOidsTable."

::= {pktcMtaDevErrorOidsEntry 1}

pktcMtaDevErrorOid OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object contains a human readable representation
(character string) of the OID corresponding to the
configuration file parameter that caused the particular
error.
For example, if the value of the pktcMtaDevEnabled object
in the configuration file caused an error, then this
object instance will contain the human-readable string of
'1.3.6.1.2.1.140.1.1.6.0'.
If the MTA generated an error because it was not able
to recognize a particular OID, then this object
instance would contain an empty value (zero-length
string).
For example,
if the value of an OID in the configuration
file was interpreted by the MTA as being 1.2.3.4.5, and if
the MTA was not able to recognize this OID as a valid one,
this object instance will contain a zero-length string.

If the number of errors in the configuration file exceeds
1024, then for all subsequent errors, the
pktcMtaDevErrorOid of the table's 1024th entry MUST
contain a human-readable representation of the
pktcMtaDevErrorsTooManyErrors object; i.e., the string

'1.3.6.1.2.1.140.1.1.4.1.0'.
Note that the syntax of this object is SnmpAdminString
instead of OBJECT IDENTIFIER because the object value may
not be a valid OID due to human or configuration tool
encoding errors."

::= {pktcMtaDevErrorOidsEntry 2}

pktcMtaDevErrorValue OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This
object contains the value of the OID corresponding to
the configuration file parameter that caused the error.
If the MTA cannot recognize the OID of the
configuration parameter causing the error, then this
object instance contains the OID itself as interpreted
by the MTA in human-readable representation.
If the MTA can recognize the OID but generate an error due
to a wrong value of the parameter, then the object

instance contains the erroneous value of the parameter as
read from the configuration file.
In both cases, the value of this object must be
represented in human-readable form as a character string.
For example, if the value of the pktcMtaDevEnabled object
in the configuration file was 3 (invalid value), then the
pktcMtaDevErrorValue object instance will contain the
human-readable (string) representation of value '3'.

Similarly, if the OID in the configuration file has been
interpreted by the MTA as being 1.2.3.4.5 and the MTA
cannot recognize this OID as a valid one, then this
pktcMtaDevErrorValue object instance will contain human
readable (string) representation of value '1.2.3.4.5'.

If the number of errors in the configuration file exceeds
1024, then for all subsequent errors, the
pktcMtaDevErrorValue of the table's 1024th entry MUST
contain a human-readable representation of the
pktcMtaDevErrorsTooManyErrors object; i.e., the string
'1.3.6.1.2.1.140.1.1.4.1.0'."

::= {pktcMtaDevErrorOidsEntry 3}

```
pktcMtaDevErrorReason  OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object indicates the reason for the error or warning,
       as per the MTA's interpretation, in human-readable form.
       For example:

     'VALUE NOT IN RANGE', 'VALUE DOES NOT MATCH TYPE',
       'UNSUPPORTED VALUE', 'LAST 4 BITS MUST BE SET TO ZERO',
       'OUT OF MEMORY - CANNOT STORE'.
       This object may also contain vendor specific errors for
       private vendor OIDs and any proprietary error codes or
       messages that can help diagnose configuration errors.

       If the number of errors in the configuration file exceeds
       1024, then for all subsequent errors, the
       pktcMtaDevErrorReason of the table's 1024th entry MUST
       contain a human-readable string indicating the reason
       for an error; for example,
       'Too many errors in the configuration file'."
  ::= {pktcMtaDevErrorOidsEntry 4}

--
-- The following group describes server access and parameters used




-- for the initial MTA provisioning and bootstrapping phases.
--

pktcMtaDevDhcpServerAddressType  OBJECT-TYPE
  SYNTAX      InetAddressType
  MAX-ACCESS  read-only
  STATUS      current
   DESCRIPTION
     " This object contains the Internet address type for the
       PacketCable DHCP servers specified in MTA MIB."
  DEFVAL { ipv4 }
  ::= { pktcMtaDevServer 1}

pktcMtaDevServerDhcp1   OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

```
      " This object contains the Internet Address of the primary
        DHCP server the MTA uses during provisioning.
        The type of this address is determined by the value of
        the pktcMtaDevDhcpServerAddressType object.
        When the latter has the value 'ipv4(1)', this object
        contains the IP address of the primary DHCP
        server.  It is provided by the CM to the MTA via the DHCP
        option code 122, sub-option 1, as defined in RFC 3495.

        The behavior of this object when the value of
        pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'
        is not presently specified, but it may be specified
         in future versions of this MIB module.
        If this object is of value
        0.0.0.0, the MTA MUST stop all provisioning
        attempts, as well as all other activities.
        If this object is of value 255.255.255.255, it means
        that there was no preference given for the primary
        DHCP server, and, the MTA must follow the logic of
        RFC2131, and the value of DHCP option 122,
        sub-option 2, must be ignored."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 2131, Dynamic Host Configuration Protocol;
        RFC 3495, DHCP Option for CableLabs Client Configuration."
    ::= { pktcMtaDevServer 2 }

pktcMtaDevServerDhcp2  OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-only



    STATUS      current
    DESCRIPTION
       " This object contains the Internet Address of the secondary
        DHCP server the MTA uses during provisioning.
        The type of this address
  is determined by the value of
        the pktcMtaDevDhcpServerAddressType object.
        When the latter has the value 'ipv4(1)', this object
        contains the IP address of the secondary DHCP
        server.  It is provided by the CM to the MTA via the DHCP
        option code 122, sub-option 2, as defined in RFC 3495.

        The behavior of this object when the value of
        pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'
        is not presently specified, but it may be specified
```

```
        in future versions of this MIB module.
        If there was no secondary DHCP server provided in DHCP
        Option 122, sub-option 2, this object must return the value
        0.0.0.0."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 3495, DHCP Option for CableLabs Client Configuration."
        ::= { pktcMtaDevServer 3 }

pktcMtaDevDnsServerAddressType  OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS
 read-only
    STATUS      current
    DESCRIPTION
       " This object contains the Internet address type for the
        PacketCable DNS servers specified in MTA MIB."
    DEFVAL { ipv4 }
    ::= { pktcMtaDevServer 4}

pktcMtaDevServerDns1  OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       " This object contains the IP Address of the primary
        DNS server to be used by the MTA.  The type of this address
        is determined by the value of the
        pktcMtaDevDnsServerAddressType object.
        When the latter has the value 'ipv4(1)', this object
        contains the IP address of the primary DNS server.
        As defined in RFC 2132, PacketCable-compliant MTAs receive
        the IP addresses of the DNS Servers in DHCP option 6.
        The behavior of this object when the value of
        pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'




        is not presently specified, but it
 may be specified
        in future versions of this MIB module.
        If a value is written into an instance of
        pktcMtaDevServerDns1, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 2132, DHCP Options and BOOTP Vendor Extensions."
    ::= { pktcMtaDevServer 5 }
```

```
pktcMtaDevServerDns2  OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object contains the IP Address of the secondary
       DNS server to be used by the MTA.  The type of this address
       is determined by the value of the
       pktcMtaDevDnsServerAddressType object.
       When the latter has the value 'ipv4(1)', this object
       contains the IP address of the secondary DNS
       server.  As defined in RFC 2132, PacketCable-compliant MTAs
       receive the IP addresses of
 the DNS Servers in DHCP
       option 6.
       The behavior of this object when the value of
       pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'
       is not presently specified, but it may be specified
       in future versions of this MIB module.
       If a value is written into an instance of
       pktcMtaDevServerDns2, the agent MUST NOT retain the
       supplied value across MTA re-initializations or reboots."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification;
       RFC 2132, DHCP Options and BOOTP Vendor Extensions."
  ::= { pktcMtaDevServer 6 }

pktcMtaDevTimeServerAddressType  OBJECT-TYPE
  SYNTAX      InetAddressType
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the Internet address type for the
       PacketCable Time servers specified in MTA MIB."
  DEFVAL { ipv4 }
  ::= { pktcMtaDevServer 7}

pktcMtaDevTimeServer   OBJECT-TYPE
  SYNTAX      InetAddress



   MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object contains the Internet Address of the Time
       Server used by an S-MTA for Time Synchronization.  The type
```

of this address is determined by the value of the
pktcMtaDevTimeServerAddressType object.
When the latter has the value 'ipv4(1)', this object
contains the IP address of the Time Server used for Time
Synchronization.
In the case of an S-MTA, this object must be
populated with a value other than 0.0.0.0 as obtained
from DHCP option 4. The protocol by which the time of day
MUST be retrieved is defined in RFC 868.
In the case of an E-MTA, this object must contain a
value of 0.0.0.0 if the address type is 'ipv4(1)' since
an E-MTA does not use the Time Protocol for time
synchronization (an E-MTA uses the time retrieved by the
DOCSIS cable modem).
The behavior of this object when the value of
pktcMtaDevTimeServerAddressType is other than 'ipv4(1)'
is not presently specified, but it may be specified in
future versions of this MIB module.
If a value is written into an instance of
pktcMtaDevTimeServer, the agent MUST NOT retain the
supplied value across MTA re-initializations or reboots."
REFERENCE
" RFC 868, Time Protocol;
RFC 2131, Dynamic Host Configuration Protocol;
RFC 2132, DHCP Options and BOOTP Vendor Extensions."
::= { pktcMtaDevServer 8}

pktcMtaDevConfigFile OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object specifies the MTA device configuration file
information, including the access method, the server name,
and the configuration file name. The value of this object
is the Uniform Resource Locator (URL)
of the configuration
file for TFTP or HTTP download.
If this object value is a TFTP URL, it must be formatted
as defined in RFC 3617.
If this object value is an HTTP URL, it must be formatted
as defined in RFC 2616.
If the MTA SNMP Enrollment mechanism is used, then the MTA
must download the file provided by the Provisioning Server

during provisioning via an SNMP SET on this object.

```
        If the MTA SNMP Enrollment mechanism is not used, this
        object MUST contain the URL value corresponding to the
        'siaddr' and 'file' fields received in the DHCP ACK to
        locate the configuration file: the 'siaddr' and 'file'
        fields represent the host and file of the TFTP URL,
        respectively.  In this case, the MTA MUST return an
        'inconsistentValue' error in response to SNMP SET
        operations.
        The MTA MUST return a zero-length string if the server
         address (host part of the URL) is unknown.
        If a value is written into an instance of
        pktcMtaDevConfigFile, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 3617, URI Scheme for TFTP; RFC 2616, HTTP 1.1"
    ::= { pktcMtaDevServer 9 }

pktcMtaDevSnmpEntity  OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object contains the FQDN of the SNMP entity of the
        Provisioning Server.  When the MTA SNMP Enrollment
        Mechanism is used, this object represents the server that
        the MTA communicates with, that it receives the
        configuration file URL from, and that it sends the
        enrollment notification to.  The SNMP entity is also the
        destination entity for all the provisioning
        notifications.  It
   may be used for post-provisioning
        SNMP operations.  During the provisioning phase, this
        SNMP entity FQDN is supplied to the MTA via DHCP option
        122, sub-option 3, as defined in RFC 3495.  The MTA must
        resolve the FQDN value before its very first network
        interaction with the SNMP entity during the provisioning
        phase."

    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 3495, DHCP Option for CableLabs Client Configuration."
    ::= { pktcMtaDevServer 10 }

pktcMtaDevProvConfigHash  OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(20))
    MAX-ACCESS  read-write
    STATUS      current
```

```
  DESCRIPTION
     " This object contains the hash value of the contents of the
       configuration file.
       The authentication algorithm is Secure Hashing Algorithm
       1 (SHA-1), and the length is 160 bits.  The hash
       calculation MUST follow the requirements defined in the

       PacketCable Security Specification.  When the MTA SNMP
       Enrollment mechanism is used, this hash value is
       calculated and sent to the MTA prior to sending the
       config file.  This object value is then provided by the
       Provisioning server via an SNMP SET operation.
       When the MTA SNMP Enrollment mechanism is not in use, the
       hash value is provided in the configuration file itself,
       and it is also calculated by the MTA.  This object value
       MUST represent the hash value calculated by the MTA.
       When the MTA SNMP Enrollment mechanism is not in use, the
       MTA must reject all SNMP SET operations on this object and
       return an 'inconsistentValue' error.
       If a value is written into an instance of
       pktcMtaDevProvConfigHash, the agent MUST NOT retain the
       supplied value across MTA re-initializations or reboots."
  REFERENCE
     " PacketCable MTA Device Provisioning
 Specification;
       PacketCable Security Specification."
  ::= { pktcMtaDevServer 11 }

pktcMtaDevProvConfigKey  OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(32))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object contains the key used to encrypt/decrypt
       the configuration file when secure SNMPv3 provisioning
       is used.
       The value of this object is provided along with the
       configuration file information (pktcMtaDevConfigFile)
       and hash (pktcMtaDevProvConfigHash) by the Provisioning
       Server via SNMP SET once the configuration file has been
       created, as defined by the PacketCable Security
       specification.

       The privacy algorithm is defined by the
       pktcMtaDevProvConfigEncryptAlg MIB object.  The
```

MTA requirements related to the privacy algorithm are
defined in the PacketCable Security Specification.

If this object is set at
any other provisioning step than
that allowed by the PacketCable MTA Device

Provisioning Specification, the MTA SHOULD return
an 'inconsistentValue' error.
This object must not be used in non secure provisioning
mode. In non-secure provisioning modes, the MTA SHOULD
return an 'inconsistentValue' in response to SNMP SET
operations, and the MTA SHOULD return a zero-length
string in response to SNMP GET operations.
If a value is written into an instance of
pktcMtaDevProvConfigKey, the agent MUST NOT retain the
supplied value across MTA re-initializations or reboots."
REFERENCE
" PacketCable MTA Device Provisioning Specification;
PacketCable Security Specification."
::= { pktcMtaDevServer 12 }

pktcMtaDevProvConfigEncryptAlg OBJECT-TYPE
SYNTAX PktcMtaDevProvEncryptAlg
MAX-ACCESS read-write
STATUS current
DESCRIPTION

" This object defines the encryption algorithm used for
privacy protection of the MTA Configuration File content."
DEFVAL { des64CbcMode }
::= { pktcMtaDevServer 13 }

pktcMtaDevProvSolicitedKeyTimeout OBJECT-TYPE
SYNTAX Unsigned32 (0..180)
UNITS "seconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object defines a Kerberos Key Management timer on the
MTA. It is the time period during which the MTA saves the
nonce and Server Kerberos Principal Identifier to match an
AP Request and its associated AP Reply response from the
Provisioning Server.
After the timeout has been exceeded, the client discards
this (nonce, Server Kerberos Principal Identifier) pair,

after which it will no longer accept a matching AP Reply.
This timer only applies when the Provisioning Server
initiated key management for SNMPv3 (with a
Wake
Up message).
If this object is set to a zero value, the MTA MUST return
an 'inconsistentValue' in response to SNMP SET operations.
This object should not be used in non-secure provisioning
modes. In non-secure provisioning modes, the MTA MUST
return an 'inconsistentValue' in response to SNMP SET
operations, and the MTA MUST return a zero value in

response to SNMP GET operations.
If a value is written into an instance of
pktcMtaDevProvSolicitedKeyTimeout, the agent MUST NOT
retain the supplied value across MTA re-initializations
or reboots."
DEFVAL { 3 }
::= { pktcMtaDevServer 14 }

--==
--
-- Unsolicited key updates are retransmitted according to an
-- exponential back-off mechanism using two timers and a maximum
-- retry counter for AS replies.
-- The initial retransmission timer value is the nominal
timer
-- value (pktcMtaDevProvUnsolicitedKeyNomTimeout). The
-- retransmissions occur with an exponentially increasing interval
-- that caps at the maximum timeout value
-- (pktcMtaDevProvUnsolicitedKeyMaxTimeout).
-- Retransmissions stop when the maximum retry counter is reached
-- (pktcMtaDevProvUnsolicitedKeyMaxRetries).
-- For example, with values of 3 seconds for the nominal
-- timer, 100 seconds for the maximum timeout, and 8 retries max,
-- and with an exponential value of 2, this results in
-- retransmission intervals will be 3 s, 6 s, 12 s, 24 s, 48 s,
-- 96 s, 100 s, and 100 s;
-- retransmissions then stop because the maximum number of
-- retries (8) has been reached.
--
--==
--
-- Timeouts for unsolicited key management updates are only
-- pertinent before the first SNMPv3 message is sent between the
-- MTA and the Provisioning Server and before the configuration

```
--  file is loaded.
--
--================================================================

pktcMtaDevProvUnsolicitedKeyMaxTimeout
  OBJECT-TYPE
   SYNTAX      Unsigned32 (0..600)
   UNITS       "seconds"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      " This object defines the timeout value that applies to
        an MTA-initiated AP-REQ/REP key management exchange with
        the Provisioning Server in SNMPv3 provisioning.
        It is the maximum timeout value, and it may not be exceeded
        in the exponential back-off algorithm.  If the DHCP option




        code 122, sub-option 5, is provided to the MTA, it
        overwrites this value.
        In non-secure provisioning modes, the MTA MUST
        return a zero value in response to SNMP GET
        operations."
   REFERENCE
      " PacketCable Security Specification."
   DEFVAL {600}
   ::= { pktcMtaDevServer 15 }

pktcMtaDevProvUnsolicitedKeyNomTimeout  OBJECT-TYPE
   SYNTAX      Unsigned32 (0..600)
    UNITS       "seconds"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      " This object defines the starting value of the timeout
        for the AP-REQ/REP Backoff and Retry mechanism
        with exponential timeout in SNMPv3 provisioning.
        If the DHCP option code 122, sub-option 5, is provided
        the MTA, it overwrites this value.
        In non-secure provisioning modes, the MTA MUST
        return a zero value in response to SNMP GET
        operations."
   REFERENCE
      " PacketCable Security Specification."
   DEFVAL {3}
   ::= { pktcMtaDevServer 16}
```

```
pktcMtaDevProvUnsolicitedKeyMaxRetries  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..32)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains a retry counter that applies to
       an MTA-initiated AP-REQ/REP key management exchange with
       the Provisioning Server in secure SNMPv3 provisioning.
       It is the maximum
 number of retries before the MTA stops
       attempting to establish a Security Association with
       Provisioning Server.
       If the DHCP option code 122, sub-option 5, is provided to
       the MTA, it overwrites this value.
       If this object is set to a zero value, the MTA MUST return
       an 'inconsistentValue' in response to SNMP SET operations.
       In non-secure provisioning modes, the MTA MUST
       return a zero value in response to SNMP GET
       operations."
  REFERENCE



     " PacketCable Security Specification."
  DEFVAL {8}
  ::= { pktcMtaDevServer 17 }

pktcMtaDevProvKerbRealmName  OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..255))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the name of the associated
       provisioning Kerberos realm acquired during the MTA4
       provisioning step (DHCP Ack) for SNMPv3 provisioning.
       The uppercase ASCII representation
 of the associated
       Kerberos realm name MUST be used by both the Manager (SNMP
       entity) and the MTA.
       The Kerberos realm name for the Provisioning Server is
       supplied to the MTA via DHCP option code 122, sub-option 6,
       as defined in RFC 3495.  In secure SNMP provisioning mode,
       the value of the Kerberos realm name for the Provisioning
       Server supplied in the MTA configuration file must match
       the value supplied in the DHCP option code 122,
       sub-option 6.  Otherwise, the value of this object must
       contain the value supplied in DHCP Option 122,
       sub-option 6."
```

```
  REFERENCE
     " PacketCable MTA Device Provisioning Specification;
       RFC 3495, DHCP Option for CableLabs Client Configuration."
  ::= { pktcMtaDevServer 18 }

pktcMtaDevProvState  OBJECT-TYPE
  SYNTAX      INTEGER  {
            operational              (1),
            waitingForSnmpSetInfo
    (2),
            waitingForTftpAddrResponse (3),
            waitingForConfigFile       (4)
  }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object defines the MTA provisioning state.
       If the state is:

         'operational(1)', the device has completed the loading
          and processing of the initialization parameters.

         'waitingForSnmpSetInfo(2)', the device is waiting on
          its configuration file download access information.
          Note that this state is only reported when the MTA




          SNMP enrollment mechanism is used.

         'waitingForTftpAddrResponse(3)', the device has sent a
          DNS request to resolve the server providing the
          configuration file, and it is awaiting for a response.
          Note that this state is only reported when the MTA
          SNMP enrollment mechanism is used.

         'waitingForConfigFile(4)', the device has
 sent a
          request via TFTP or HTTP for the download of its
          configuration file, and it is awaiting for a response or
          the file download is in progress."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification,
       PacketCable Security Specification."
  ::= { pktcMtaDevServer 19 }

  --
  -- The following object group describes the security objects.
```

```
  --

pktcMtaDevManufacturerCertificate  OBJECT-TYPE
  SYNTAX      DocsX509ASN1DEREncodedCertificate
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the MTA Manufacturer Certificate.
       The object value must be the ASN.1 DER encoding of the MTA
       manufacturer's X.509 public key certificate.  The MTA
       Manufacturer Certificate is issued to each MTA
       manufacturer and is installed into each MTA at the time of
       manufacture or with a secure code download.  The specific
       requirements
 related to this certificate are defined in
       the PacketCable or IPCablecom Security specifications."
  REFERENCE
     " PacketCable Security Specification."

  ::= {pktcMtaDevSecurity 1}

pktcMtaDevCertificate  OBJECT-TYPE
  SYNTAX      DocsX509ASN1DEREncodedCertificate
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the MTA Device Certificate.
       The object value must be the ASN.1 DER encoding of the
       MTA's X.509 public-key certificate issued by the
       manufacturer and installed into the MTA at the time of



       manufacture or with a secure code download.
       This certificate contains the MTA MAC address.  The
       specific requirements related to this certificate are
       defined in the PacketCable or IPCablecom Security
       specifications."
  REFERENCE
     " PacketCable Security Specification."
  ::= { pktcMtaDevSecurity 2 }

pktcMtaDevCorrelationId  OBJECT-TYPE
   SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains a correlation ID, an arbitrary value
```

```
        generated by the MTA that will be exchanged as part of the
        device capability data to the Provisioning Application.
        This random value is used as an identifier to correlate
        related events in the MTA provisioning sequence.
        This value is intended for use only during the MTA
        initialization and configuration file download."
    REFERENCE
        " PacketCable MTA Device Provisioning Specification."
    ::= { pktcMtaDevSecurity 3 }

pktcMtaDevTelephonyRootCertificate  OBJECT-TYPE
    SYNTAX      DocsX509ASN1DEREncodedCertificate
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " This object contains the telephony Service Provider Root
        certificate.  The object value is the ASN.1 DER encoding of
        the IP Telephony Service Provider
 Root X.509 public key
        certificate.  This certification is stored in the MTA
        non-volatile memory and can be updated with a secure code
        download.  This certificate is used to validate the initial
        AS Reply received by the MTA from the Key Distribution
        Center (KDC) during the MTA initialization.  The specific
        requirements related to this certificate are defined in
        the PacketCable or IPCablecom Security specifications."
    REFERENCE
        " PacketCable Security Specification."
    ::= { pktcMtaDevSecurity 4 }

--================================================================
--
--   Informative Procedures for Setting up Security Associations
--




--   A Security Association may be set up either via configuration or
--   via NCS signaling.
--
--   I.   Security association setup via configuration.
--
--   The realm must be configured first.  Associated with the realm
--   is a KDC.  The realm table (pktcMtaDevRealmTable)
 indicates
--   information about the realm (e.g., name, organization name) and
--   parameters associated with KDC communications (e.g., grace
--   periods, AS Request/AS Reply adaptive back-off parameters).
```

```
--
--  Once the realm is established, one or more CMS(es) may be
--  defined in the realm.  Associated with each CMS
--  entry in the pktcMtaDevCmsTable is an explicit reference
--  to a Realm via the realm name (pktcMtaDevCmsKerbRealmName),
--  the FQDN of the CMS, and parameters associated with IPSec
--  key management with the CMS (e.g., clock skew, AP Request/
--  AP Reply adaptive back-off parameters).
--
--  II.  Security association setup via NCS signaling.
--
--  The procedure of establishing the Security Associations
--  for NCS signaling is described in the PacketCable Security
--  specification.
--  It involves the analysis of the pktcNcsEndPntConfigTable row
--  for the corresponding endpoint number and the correlation of
--  the CMS FQDN from this row
 with the CMS Table and
--  consequently, with the Realm Table.  Both of these tables
--  are defined below.  The pktcNcsEndPntConfigTable is defined in
--  the IP over Cable Data Network (IPCDN)
--  NCS Signaling MIB [NCSSIGMIB].
--
--  III.  When the MTA receives wake-up or re-key messages from a
--  CMS, it performs key management based on the corresponding
--  entry in the CMS table.  If the matching CMS entry does not
--  exist, it must ignore the wake-up or re-key messages.
--
--================================================================
--================================================================
--
--  pktcMtaDevRealmTable
--
--  The pktcMtaDevRealmTable shows the KDC realms.  The table is
--  indexed with pktcMtaDevRealmIndex.  The Realm Table contains the
--  pktcMtaDevRealmName in conjunction with any server that needs
--  a Security Association with the MTA.  Uppercase must be used
--  to compare the pktcMtaDevRealmName content.
--




--================================================================

pktcMtaDevRealmAvailSlot
  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..64)
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
     " This object contains the index number of the first
       available entry in the realm table (pktcMtaDevRealmTable).
       If all the entries in the realm table have been assigned,
       this object contains the value of zero.
       A management station should create new entries in the
       realm table, using the following procedure:

       First, issue a management protocol retrieval operation
       to determine the value of the first available index in the
       realm table (pktcMtaDevRealmAvailSlot).

       Second, issue a management protocol SET operation
       to create an instance of the pktcMtaDevRealmStatus
       object by setting its value to 'createAndWait(5)'.

       Third, if the SET operation succeeded, continue

   modifying the object instances corresponding to the newly
       created conceptual row, without fear of collision with
       other management stations.  When all necessary conceptual
       columns of the row are properly populated (via SET
       operations or default values), the management station may
       SET the pktcMtaDevRealmStatus object to 'active(1)'."
  ::= {  pktcMtaDevSecurity 5 }

pktcMtaDevRealmTable  OBJECT-TYPE
  SYNTAX      SEQUENCE OF PktcMtaDevRealmEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     " This object contains the realm table.
       The CMS table (pktcMtaDevCmsTable) and the realm table
       (pktcMtaDevRealmTable) are used for managing the MTA-CMS
       Security Associations.  The realm table defines the
       Kerberos realms for the Application Servers (CMSes and the
       Provisioning Server)."
  ::= {  pktcMtaDevSecurity 6 }

pktcMtaDevRealmEntry  OBJECT-TYPE
  SYNTAX
   PktcMtaDevRealmEntry
  MAX-ACCESS  not-accessible
  STATUS      current
```

```
  DESCRIPTION
     " This table entry object lists the MTA security parameters
       for a single Kerberos realm.  The conceptual rows MUST NOT
       persist across MTA reboots."
  INDEX { pktcMtaDevRealmIndex }
::= { pktcMtaDevRealmTable 1 }

PktcMtaDevRealmEntry ::= SEQUENCE {
  pktcMtaDevRealmIndex                  Unsigned32,
  pktcMtaDevRealmName                   SnmpAdminString,
  pktcMtaDevRealmPkinitGracePeriod      Unsigned32,
  pktcMtaDevRealmTgsGracePeriod         Unsigned32,
  pktcMtaDevRealmOrgName                LongUtf8String,
  pktcMtaDevRealmUnsolicitedKeyMaxTimeout Unsigned32,
  pktcMtaDevRealmUnsolicitedKeyNomTimeout Unsigned32,
  pktcMtaDevRealmUnsolicitedKeyMaxRetries Unsigned32,
  pktcMtaDevRealmStatus                 RowStatus
  }

pktcMtaDevRealmIndex  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..64)
  MAX-ACCESS  not-accessible
  STATUS
    current
  DESCRIPTION
     " This object defines the realm table index."
  ::= { pktcMtaDevRealmEntry 1}

pktcMtaDevRealmName  OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..255))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object identifies the Kerberos realm name in all
       capitals.  The MTA MUST prohibit the instantiation of any
       two rows with identical Kerberos realm names.  The MTA MUST
       also verify that any search operation involving Kerberos
       realm names is done using the uppercase ASCII
       representation of the characters."
  ::= { pktcMtaDevRealmEntry 2 }

pktcMtaDevRealmPkinitGracePeriod  OBJECT-TYPE
  SYNTAX      Unsigned32 (15..600)
  UNITS       "minutes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the PKINIT Grace Period.  For the
```

purpose of key management with Application Servers (CMSes

or
the Provisioning Server), the MTA must utilize the
PKINIT exchange to obtain Application Server tickets. The
MTA may utilize the PKINIT exchange to obtain Ticket
Granting Tickets (TGTs), which are then used to obtain
Application Server tickets in a TGS exchange.
The PKINIT exchange occurs according to the current Ticket
Expiration Time (TicketEXP) and on the PKINIT Grace Period
(PKINITGP). The MTA MUST initiate the PKINIT exchange at
the time: TicketEXP - PKINITGP."
REFERENCE
" PacketCable Security Specification."
DEFVAL { 15 }
::= { pktcMtaDevRealmEntry 3 }

pktcMtaDevRealmTgsGracePeriod OBJECT-TYPE
SYNTAX Unsigned32 (1..600)
UNITS "minutes"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the Ticket Granting Server Grace
Period (TGSGP). The Ticket Granting Server (TGS)
Request/Reply exchange may be performed
by the MTA
on demand whenever an Application Server ticket is
needed to establish security parameters. If the MTA
possesses a ticket that corresponds to the Provisioning
Server or a CMS that currently exists in the CMS table,
the MTA MUST initiate the TGS Request/Reply exchange
at the time: TicketEXP - TGSGP."
REFERENCE
" PacketCable Security Specification."
DEFVAL { 10 }
::= { pktcMtaDevRealmEntry 4 }

pktcMtaDevRealmOrgName OBJECT-TYPE
SYNTAX LongUtf8String
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the X.500 organization name attribute
as defined in the subject name of the service provider
certificate."

```
  REFERENCE
     " PacketCable Security Specification;
       RFCs 3280 and 4630, Internet X.509 Public Key
       Infrastructure Certificate and Certificate Revocation List
       (CRL) Profile"
   ::= { pktcMtaDevRealmEntry 5 }



pktcMtaDevRealmUnsolicitedKeyMaxTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..600)
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object specifies the maximum time the MTA will
       attempt to perform the exponential back-off algorithm.
       This timer only applies when the MTA initiated key
       management.  If the DHCP option code 122, sub-option 4, is
       provided to the MTA, it overwrites this value.

       Unsolicited key updates are retransmitted according to an
       exponential back-off mechanism using two timers and a
       maximum retry counter for AS replies.
       The initial retransmission timer value is the nominal
       timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
       retransmissions occur with an exponentially increasing
       interval that caps at the maximum timeout value
       (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
        Retransmissions stop when the maximum retry counter is
       reached (pktcMatDevRealmUnsolicitedMaxRetries).

       For example, with values of 3 seconds for the nominal
       timer, 20 seconds for the maximum timeout, and 5 retries
       max, retransmission intervals will be 3 s, 6 s,
       12 s, 20 s, and 20 s, and retransmissions then stop because
       the maximum number of retries has been reached."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 100 }
  ::= { pktcMtaDevRealmEntry 6 }

pktcMtaDevRealmUnsolicitedKeyNomTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (100..600000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
      " This object specifies the initial timeout value
        for the AS-REQ/AS-REP exponential back-off and retry
        mechanism.  If the DHCP option code 122, sub-option 4, is
        provided to the MTA, it
overwrites this value.
        This value should account for the average roundtrip
        time between the MTA and the KDC, as well as the
        processing delay on the KDC.




        Unsolicited key updates are retransmitted according to an
        exponential back-off mechanism using two timers and a
        maximum retry counter for AS replies.
        The initial retransmission timer value is the nominal
        timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
        retransmissions occur with an exponentially increasing
        interval that caps at the maximum timeout value
        (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
        Retransmissions stop when the maximum retry counter is
        reached (pktcMatDevRealmUnsolicitedMaxRetries).

        For example, with values of 3 seconds for the nominal
        timer, 20 seconds for the maximum timeout, and 5 retries
        max, in retransmission intervals will be 3 s, 6 s,

    12 s, 20 s, and 20 s; retransmissions then stop because
        the maximum number of retries has been reached."
  REFERENCE
      " PacketCable Security Specification."
  DEFVAL { 3000 }
  ::= { pktcMtaDevRealmEntry 7 }

pktcMtaDevRealmUnsolicitedKeyMaxRetries  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..1024)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      " This object specifies the maximum number of retries the
        MTA attempts to obtain a ticket from the KDC.

        Unsolicited key updates are retransmitted according to an
        exponential back-off mechanism using two timers and a
        maximum retry counter for AS replies.
        The initial retransmission timer value is the nominal
        timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
```

```
        retransmissions occur with an exponentially increasing
        interval that caps at the maximum timeout value
        (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
         Retransmissions stop when the maximum retry counter is
        reached (pktcMatDevRealmUnsolicitedMaxRetries).

        For example, with values of 3 seconds for the nominal
        timer, 20 seconds for the maximum timeout, and 5 retries
        max, retransmission intervals will be 3 s, 6 s,
        12 s, 20 s, and 20 s; retransmissions then stop because
        the maximum number of retries has been reached."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL { 5 }



    ::= { pktcMtaDevRealmEntry 8 }

pktcMtaDevRealmStatus     OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object defines the row status of this realm in the
        realm table (pktcMtaDevRealmTable).

        An entry in this table is not qualified for activation
        until the object instances of all corresponding columns
        have been initialized, either by default values, or
 via
        explicit SET operations.  Until all object instances in
        this row are initialized, the status value for this realm
        must be 'notReady(3)'.
        In particular, two columnar objects must be explicitly
        SET: the realm name (pktcMtaDevRealmName) and the
        organization name (pktcMtaDevRealmOrgName).  Once these 2
        objects have been set and the row status is SET to
        'active(1)', the MTA MUST NOT allow any modification of
        these 2 object values.
        The value of this object has no effect on whether other
        columnar objects in this row can be modified."
    ::= { pktcMtaDevRealmEntry 9 }

--================================================================
--
--  The CMS table, pktcMtaDevCmsTable
--
```

```
-- The CMS table and the realm table (pktcMtaDevRealmTable) are used
-- for managing the MTA signaling security.  The CMS table defines
-- the CMSes the MTA is allowed to communicate with and contains
-- the
 parameters describing the SA establishment between the MTA
-- and a CMS.
-- The CMS table is indexed by pktcMtaDevCmsIndex.  The table
-- contains the CMS FQDN (pktcMtaDevCmsFQDN) and the associated
-- Kerberos realm name (pktcMtaDevCmsKerbRealmName) so that the MTA
-- can find the corresponding Kerberos realm name in the
-- pktcMtaDevRealmTable.
--
--================================================================

pktcMtaDevCmsAvailSlot   OBJECT-TYPE
  SYNTAX      Unsigned32 (0..128)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION



      " This object contains the index number of the first
        available entry in the CMS table (pktcMtaDevCmsTable).
        If all the entries in the CMS table have been assigned,
        this object contains the value of zero.
        A management station should create new entries in the
        CMS table, using the following procedure:

        First, issue a management protocol retrieval operation

 to determine the value of the first available index in the
        CMS table (pktcMtaDevCmsAvailSlot).

        Second, issue a management protocol SET operation
        to create an instance of the pktcMtaDevCmsStatus
        object by setting its value to 'createAndWait(5)'.

        Third, if the SET operation succeeded, continue
        modifying the object instances corresponding to the newly
        created conceptual row, without fear of collision with
        other management stations.  When all necessary conceptual
        columns of the row are properly populated (via SET
        operations or default values), the management station may
        SET the pktcMtaDevCmsStatus object to 'active(1)'."
  ::= {  pktcMtaDevSecurity 7 }

pktcMtaDevCmsTable  OBJECT-TYPE
```

```
  SYNTAX      SEQUENCE OF PktcMtaDevCmsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     " This object defines the CMS table.
       The CMS table (pktcMtaDevCmsTable)
 and the realm table
       (pktcMtaDevRealmTable) are used for managing security
       between the MTA and CMSes.  Each CMS table entry defines
       a CMS the managed MTA is allowed to communicate with
       and contains security parameters for key management with
       that CMS."
  ::= {  pktcMtaDevSecurity 8 }

pktcMtaDevCmsEntry  OBJECT-TYPE
  SYNTAX      PktcMtaDevCmsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     " This table entry object lists the MTA key management
       parameters used when establishing Security Associations
       with a CMS.  The conceptual rows MUST NOT persist across
       MTA reboots."
  INDEX { pktcMtaDevCmsIndex }



  ::= { pktcMtaDevCmsTable 1 }

PktcMtaDevCmsEntry ::= SEQUENCE {
  pktcMtaDevCmsIndex                  Unsigned32,
  pktcMtaDevCmsFqdn                   SnmpAdminString,
  pktcMtaDevCmsKerbRealmName          SnmpAdminString,
  pktcMtaDevCmsMaxClockSkew
          Unsigned32,
  pktcMtaDevCmsSolicitedKeyTimeout    Unsigned32,
  pktcMtaDevCmsUnsolicitedKeyMaxTimeout   Unsigned32,
  pktcMtaDevCmsUnsolicitedKeyNomTimeout   Unsigned32,
  pktcMtaDevCmsUnsolicitedKeyMaxRetries   Unsigned32,
  pktcMtaDevCmsIpsecCtrl              TruthValue,
  pktcMtaDevCmsStatus                 RowStatus
  }

pktcMtaDevCmsIndex  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..128)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

```
      " This object defines the CMS table index."
   ::= { pktcMtaDevCmsEntry 1 }

pktcMtaDevCmsFqdn  OBJECT-TYPE
   SYNTAX      SnmpAdminString (SIZE(1..255))
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      " This object specifies the CMS FQDN.  The MTA must
        prohibit the instantiation of any two rows with identical
        FQDNs.  The MTA must also verify that any search and/or
        comparison operation
 involving a CMS FQDN is case
        insensitive.  The MTA must resolve the CMS FQDN as required
         by the corresponding PacketCable Specifications."
   REFERENCE
      " PacketCable MTA Device Provisioning Specification;
        PacketCable Security Specification;
        PacketCable Network-Based Call Signaling Protocol
        Specification."
   ::= { pktcMtaDevCmsEntry 2 }

pktcMtaDevCmsKerbRealmName  OBJECT-TYPE
   SYNTAX      SnmpAdminString (SIZE(1..255))
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      " This object identifies the Kerberos realm name in uppercase
        characters associated with the CMS defined in this




        conceptual row.  The object value is a reference
        point to the corresponding Kerberos realm name in the
        realm table (pktcMtaDevRealmTable)."
   ::= { pktcMtaDevCmsEntry 3 }

pktcMtaDevCmsMaxClockSkew    OBJECT-TYPE
   SYNTAX      Unsigned32 (1..1800)
   UNITS       "seconds"
    MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      " This object specifies the maximum allowable clock skew
        between the MTA and the CMS defined in this row."
   DEFVAL { 300 }
   ::= { pktcMtaDevCmsEntry 4 }
```

```
pktcMtaDevCmsSolicitedKeyTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (100..30000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines a Kerberos Key Management timer on the
       MTA.  It is the time period during which the MTA saves the
       nonce and Server Kerberos Principal Identifier to match an
       AP Request and its associated AP Reply response from the
       CMS.  This timer only applies when the CMS initiated key
       management (with a Wake Up message or a Rekey message)."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 1000 }
  ::= { pktcMtaDevCmsEntry 5 }

--====================================================================
--
--
 Unsolicited key updates are retransmitted according to an
--  exponential back-off mechanism using two timers and a maximum
--  retry counter for AS replies.
--  The initial retransmission timer value is the nominal timer
--  value (pktcMtaDevCmsUnsolicitedKeyNomTimeout).  The
--  retransmissions occur with an exponentially increasing interval
--  that caps at the maximum timeout value
--  (pktcMtaDevCmsUnsolicitedKeyMaxTimeout).
--  Retransmissions stop when the maximum retry counter is reached
--  (pktcMatDevCmsUnsolicitedMaxRetries).
--  For example, with values of 3 seconds for the nominal
--  timer, 20 seconds for the maximum timeout, and 5 retries max,
--  retransmission intervals will be 3 s, 6 s, 12 s,



--  20 s, and 20 s; retransmissions then stop due to the
--  maximum number of retries reached.
--
--====================================================================

pktcMtaDevCmsUnsolicitedKeyMaxTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..600)
   UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines the timeout value that only applies
```

```
        to an MTA-initiated key management exchange.  It is the
        maximum timeout, and it may not be exceeded in the
        exponential back-off algorithm."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL { 600 }
    ::= { pktcMtaDevCmsEntry 6 }

pktcMtaDevCmsUnsolicitedKeyNomTimeout  OBJECT-TYPE
    SYNTAX      Unsigned32 (100..30000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object defines the starting value of the timeout
        for an MTA-initiated key management.  It should account for
        the average roundtrip time between the MTA and the CMS and
        the processing time on the CMS."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL { 500 }
    ::= { pktcMtaDevCmsEntry 7 }

pktcMtaDevCmsUnsolicitedKeyMaxRetries
   OBJECT-TYPE
    SYNTAX      Unsigned32 (0..1024)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object contains the maximum number of retries before
        the MTA stops attempting to establish a Security
        Association with the CMS."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL { 5 }
    ::= { pktcMtaDevCmsEntry 8 }




pktcMtaDevCmsIpsecCtrl     OBJECT-TYPE
    SYNTAX        TruthValue
    MAX-ACCESS    read-only
    STATUS        current
    DESCRIPTION
       " This object specifies the MTA IPSec control flag.
        If the object value is 'true', the MTA must use Kerberos
        Key Management and IPsec to communicate with this CMS.  If
```

```
        it is 'false', IPSec Signaling Security and Kerberos key
        management are disabled for this specific CMS."
    DEFVAL { true }
    ::= { pktcMtaDevCmsEntry 9 }

pktcMtaDevCmsStatus     OBJECT-TYPE
    SYNTAX
   RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object defines the row status associated with this
        particular CMS in the CMS table (pktcMtaDevCmsTable).

        An entry in this table is not qualified for activation
        until the object instances of all corresponding columns
        have been initialized, either by default values or via
        explicit SET operations.  Until all object instances in
        this row are initialized, the status value for this realm
        must be 'notReady(3)'.
        In particular, two columnar objects must be SET: the
        CMS FQDN (pktcMtaDevCmsFqdn) and the Kerberos realm name
        (pktcMtaDevCmsKerbRealmName).  Once these 2 objects have
        been set and the row status is SET to 'active(1)', the MTA
        MUST NOT allow any modification of these 2 object values.

        The value of this object has no effect on
        whether other columnar objects
  in this row can be
        modified."
    ::= { pktcMtaDevCmsEntry 10 }

pktcMtaDevResetKrbTickets   OBJECT-TYPE
    SYNTAX      BITS {
                    invalidateProvOnReboot   (0),
                    invalidateAllCmsOnReboot (1)
              }
    MAX-ACCESS   read-write
    STATUS    current
    DESCRIPTION
       " This object defines a Kerberos Ticket Control Mask that
        instructs the MTA to invalidate the specific Application




        Server Kerberos ticket(s) that are stored locally in the
        MTA NVRAM (non-volatile or persistent memory).
        If the MTA does not store Kerberos tickets in NVRAM, it
```

```
        MUST ignore setting of this object and MUST report a BITS
        value of zero when the object is read.
        If the MTA supports Kerberos tickets storage in NVRAM, the
        object value is encoded as follows:
        - Setting the invalidateProvOnReboot bit (bit 0) to 1
          means that the MTA MUST invalidate
 the Kerberos
          Application Ticket(s) for the Provisioning Application
          at the next MTA reboot if secure SNMP provisioning mode
          is used.  In non-secure provisioning modes, the MTA MUST
          return an 'inconsistentValue' in response to SNMP SET
          operations with a bit 0 set to 1.
        - Setting the invalidateAllCmsOnReboot bit (bit 1) to 1
          means that the MTA MUST invalidate the Kerberos
          Application Ticket(s) for all CMSes currently assigned
          to the MTA endpoints.
        If a value is written into an instance of
        pktcMtaDevResetKrbTickets, the agent MUST retain the
        supplied value across an MTA re-initialization or
        reboot."
  REFERENCE
     "PacketCable Security Specification."
  DEFVAL { {   } }
  ::= {  pktcMtaDevSecurity 9 }

--
-- The following group, pktcMtaDevErrors, defines an OID
-- corresponding to error conditions encountered during the MTA
-- provisioning.
--

pktcMtaDevErrorsTooManyErrors
 OBJECT-IDENTITY
  STATUS     current
  DESCRIPTION
     "This object defines the OID corresponding to the error
      condition when too many errors are encountered in the
      MTA configuration file during provisioning."
    ::= { pktcMtaDevErrors  1 }

pktcMtaDevProvisioningEnrollment  NOTIFICATION-TYPE
  OBJECTS {
          sysDescr,
          pktcMtaDevSwCurrentVers,
          pktcMtaDevTypeIdentifier,
          ifPhysAddress,
          pktcMtaDevCorrelationId
```

```
  }
  STATUS   current
  DESCRIPTION
     " This INFORM notification is issued by the MTA to initiate
       the PacketCable provisioning process when the MTA SNMP
       enrollment mechanism is used.
       It contains the system description, the current software
       version, the MTA device type identifier, the MTA MAC
       address (obtained in the MTA ifTable in the ifPhysAddress
       object that corresponds to the ifIndex
 1), and a
       correlation ID."
  ::= { pktcMtaNotification 1 }

pktcMtaDevProvisioningStatus  NOTIFICATION-TYPE
  OBJECTS {
        ifPhysAddress,
        pktcMtaDevCorrelationId,
        pktcMtaDevProvisioningState
  }
  STATUS      current
  DESCRIPTION
     " This INFORM notification may be issued by the MTA to
       confirm the completion of the PacketCable provisioning
       process, and to report its provisioning completion
       status.
       It contains the MTA MAC address (obtained in the MTA
       ifTable in the ifPhysAddress object that corresponds
       to the ifIndex 1), a correlation ID and the MTA
       provisioning state as defined in
       pktcMtaDevProvisioningState."
  ::= { pktcMtaNotification 2 }

--
-- Compliance Statements
--

pktcMtaCompliances  OBJECT IDENTIFIER ::= { pktcMtaConformance 1 }
pktcMtaGroups       OBJECT IDENTIFIER ::= { pktcMtaConformance 2 }

pktcMtaBasicCompliance MODULE-COMPLIANCE
   STATUS      current
  DESCRIPTION
     " The compliance statement for MTA devices that implement
       PacketCable or IPCablecom requirements.
```

```
        This compliance statement applies to MTA implementations
        that support PacketCable 1.0 or IPCablecom requirements,
        which are not IPv6-capable at the time of this



        RFC publication."

    MODULE  -- Unconditionally mandatory groups for MTAs

      MANDATORY-GROUPS {
        pktcMtaGroup,
        pktcMtaNotificationGroup
      }

      OBJECT  pktcMtaDevDhcpServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
          " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

      OBJECT  pktcMtaDevDnsServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }

    DESCRIPTION
          " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

      OBJECT  pktcMtaDevTimeServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
          " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

      OBJECT    pktcMtaDevServerDhcp1
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
          "An implementation is only required to support IPv4
        addresses.  Other address types support may be defined in
        future versions of this MIB module."

      OBJECT    pktcMtaDevServerDhcp2
```

SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation
is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns1

SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevTimeServer
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg
SYNTAX PktcMtaDevProvEncryptAlg
DESCRIPTION
"An implementation is only required to support
values of none(0) and des64Cbcmode(1).
An IV of zero is used to encrypt in des64Cbcmode, and
the length of pktcMtaDevProvConfigKey is 64 bits, as
defined in the PacketCable Security specification.
Other encryption types may be defined in future
versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName
SYNTAX LongUtf8String (SIZE (1..384))
DESCRIPTION
"The Organization Name field in X.509 certificates
can contain up to 64 UTF-8 encoded characters,
as defined in RFCs 3280 and 4630. Therefore, compliant

devices are only required to support Organization
Name values of up to 64 UTF-8 encoded characters.
Given that RFCs 3280 and 4630 define the UTF-8 encoding,
compliant devices must support a maximum size of 384
octets for pktcMtaDevRealmOrgName. The calculation of
384 octets comes from the RFC 3629 UTF-8 encoding
definition whereby the UTF-8 encoded characters
are encoded as sequences of 1 to 6 octets,
assuming that code points as high as 0x7fffffff
might be used. Subsequent versions of Unicode and ISO
10646 have limited the upper bound to 0x10ffff.

Consequently, the current version of UTF-8, defined in
RFC 3629, does not require more than four octets to
encode a valid code point."

::= { pktcMtaCompliances 1 }

pktcMtaGroup OBJECT-GROUP
OBJECTS {
pktcMtaDevResetNow,
pktcMtaDevSerialNumber,
pktcMtaDevSwCurrentVers,
pktcMtaDevFQDN,
pktcMtaDevEndPntCount,

pktcMtaDevEnabled,
pktcMtaDevProvisioningCounter,
pktcMtaDevErrorOid,
pktcMtaDevErrorValue,
pktcMtaDevErrorReason,
pktcMtaDevTypeIdentifier,
pktcMtaDevProvisioningState,
pktcMtaDevHttpAccess,
pktcMtaDevCertificate,
pktcMtaDevCorrelationId,
pktcMtaDevManufacturerCertificate,
pktcMtaDevDhcpServerAddressType,
pktcMtaDevDnsServerAddressType,
pktcMtaDevTimeServerAddressType,
pktcMtaDevProvConfigEncryptAlg,
pktcMtaDevServerDhcp1,
pktcMtaDevServerDhcp2,
pktcMtaDevServerDns1,
pktcMtaDevServerDns2,
pktcMtaDevTimeServer,

```
        pktcMtaDevConfigFile,
        pktcMtaDevSnmpEntity,
        pktcMtaDevRealmPkinitGracePeriod,
        pktcMtaDevRealmTgsGracePeriod,
        pktcMtaDevRealmAvailSlot,
        pktcMtaDevRealmName,
        pktcMtaDevRealmOrgName,
         pktcMtaDevRealmUnsolicitedKeyMaxTimeout,
        pktcMtaDevRealmUnsolicitedKeyNomTimeout,
        pktcMtaDevRealmUnsolicitedKeyMaxRetries,
        pktcMtaDevRealmStatus,
        pktcMtaDevCmsAvailSlot,
        pktcMtaDevCmsFqdn,
        pktcMtaDevCmsKerbRealmName,
        pktcMtaDevCmsUnsolicitedKeyMaxTimeout,



        pktcMtaDevCmsUnsolicitedKeyNomTimeout,
        pktcMtaDevCmsUnsolicitedKeyMaxRetries,
        pktcMtaDevCmsSolicitedKeyTimeout,
        pktcMtaDevCmsMaxClockSkew,
        pktcMtaDevCmsIpsecCtrl,
        pktcMtaDevCmsStatus,
        pktcMtaDevResetKrbTickets,
        pktcMtaDevProvUnsolicitedKeyMaxTimeout,
        pktcMtaDevProvUnsolicitedKeyNomTimeout,
        pktcMtaDevProvUnsolicitedKeyMaxRetries,
        pktcMtaDevProvKerbRealmName,
        pktcMtaDevProvSolicitedKeyTimeout,
        pktcMtaDevProvConfigHash,
        pktcMtaDevProvConfigKey,
        pktcMtaDevProvState,
         pktcMtaDevProvisioningTimer,
        pktcMtaDevTelephonyRootCertificate
  }
  STATUS      current
  DESCRIPTION
     " A collection of objects for managing PacketCable or
      IPCablecom MTA implementations."
  ::= { pktcMtaGroups 1 }

pktcMtaNotificationGroup          NOTIFICATION-GROUP
  NOTIFICATIONS {
            pktcMtaDevProvisioningStatus,
            pktcMtaDevProvisioningEnrollment
  }
  STATUS      current
```

```
  DESCRIPTION
     " A collection of notifications dealing with the change of
       MTA provisioning status."
  ::= { pktcMtaGroups 2 }

pktcMtaBasicSmtaCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
     " The compliance statement for S-MTA devices
       that implement PacketCable or IPCablecom requirements.

       This compliance statement applies to S-MTA implementations
       that support PacketCable or IPCablecom requirements,
       which are not IPv6-capable
 at the time of this
       RFC publication."

  MODULE -- Unconditionally Mandatory Groups for S-MTA devices
     MANDATORY-GROUPS {



        pktcMtaGroup,
        pktcMtaNotificationGroup
     }

     OBJECT  pktcMtaDevDhcpServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
           " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

     OBJECT  pktcMtaDevDnsServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
           " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

     OBJECT  pktcMtaDevTimeServerAddressType
        SYNTAX      InetAddressType { ipv4(1)
 }
        DESCRIPTION
           " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
```

required. It may be defined in future versions of
this MIB module."

OBJECT pktcMtaDevServerDhcp1
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns1
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required
to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevTimeServer
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg
SYNTAX PktcMtaDevProvEncryptAlg
DESCRIPTION
"An implementation is only required to support
values of none(0) and des64Cbcmode(1).
An IV of zero is used to encrypt

```
in des64Cbcmode, and
        the length of pktcMtaDevProvConfigKey is 64 bits, as
        defined in the PacketCable Security specification.
        Other encryption types may be defined in future
        versions of this MIB module."

    OBJECT pktcMtaDevRealmOrgName
        SYNTAX LongUtf8String (SIZE (1..384))
        DESCRIPTION
            "The Organization Name field in X.509 certificates
        can contain up to 64 UTF-8 encoded characters, as
        defined in RFCs 3280 and 4630.  Therefore, compliant
        devices are only required to support Organization
        Name values of up to 64 UTF-8 encoded characters.
        Given that RFCs 3280 and 4630 define the UTF-8 encoding,
        compliant devices must support a maximum size of 384
        octets for pktcMtaDevRealmOrgName.  The calculation of
        384 octets comes from the RFC 3629 UTF-8 encoding
        definition whereby the UTF-8 encoded
characters
        are encoded as sequences of 1 to 6 octets,
        assuming that code points as high as 0x7fffffff
        might be used.  Subsequent versions of Unicode and ISO
        10646 have limited the upper bound to 0x10ffff.
        Consequently, the current version of UTF-8, defined in
        RFC 3629 does not require more than four octets to
        encode a valid code point."
  MODULE DOCS-CABLE-DEVICE-MIB
    MANDATORY-GROUPS {




        docsDevSoftwareGroupV2
    }

  MODULE DOCS-IETF-BPI2-MIB
    MANDATORY-GROUPS {
        docsBpi2CodeDownloadGroup
    }

   ::= { pktcMtaCompliances 2 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB
No license file was found, but licenses were detected in source scan.
```

```
PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY,
  OBJECT-TYPE,
  Integer32,
  Unsigned32,
  mib-2
      FROM SNMPv2-SMI                 -- [RFC2578]
  InetAddressType,
  InetAddress,
  InetPortNumber
      FROM INET-ADDRESS-MIB           -- [RFC4001]
  TEXTUAL-CONVENTION,
  RowStatus,
  TruthValue
      FROM SNMPv2-TC                  -- [RFC2579]



  OBJECT-GROUP,
  MODULE-COMPLIANCE
      FROM SNMPv2-CONF                -- [RFC2580]
  SnmpAdminString
      FROM SNMP-FRAMEWORK-MIB         -- [RFC3411]
  ifIndex
      FROM IF-MIB                     -- [RFC2863]
  Dscp
      FROM DIFFSERV-DSCP-TC;          -- [RFC3289]

pktcIetfSigMib MODULE-IDENTITY
  LAST-UPDATED    "200712180000Z" -- December 18, 2007
  ORGANIZATION    "IETF IPCDN Working Group"
  CONTACT-INFO
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```
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        General Discussion: ipcdn@ietf.org
        Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
        Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
        Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
        Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"

    DESCRIPTION
      "This MIB module supplies the basic management
       objects for the PacketCable and IPCablecom Signaling
       protocols.  This version of the MIB includes
       common signaling and Network Call Signaling




       (NCS)-related signaling objects.

       Copyright (C) The IETF Trust (2008).  This version of
       this MIB module is part of RFC 5098; see the RFC itself for
       full legal notices."
    REVISION             "200712180000Z"
    DESCRIPTION
      "Initial version, published as RFC 5098."

::=  { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS       current
    DESCRIPTION
        "This TEXTUAL-CONVENTION represents power levels that are
         normally expressed in dBm.  Units are in tenths of a dBm;
         for example, -13.5 dBm will be represented as -135."
    SYNTAX       Integer32

PktcCodecType ::= TEXTUAL-CONVENTION
    STATUS       current
```

DESCRIPTION
" This TEXTUAL-CONVENTION defines various types of codecs

that MAY be supported. The description for each
enumeration is listed below:

Enumeration	Description
other	a defined codec not in the enumeration
unknown	a codec not defined by the PacketCable Codec Specification
g729	ITU-T Recommendation G.729
reserved	for future use
g729E	ITU-T Recommendation G.729E
pcmu	Pulse Code Modulation u-law (PCMU)
g726at32	ITU-T Recommendation G.726-32 (32 kbit/s)
g728	ITU-T Recommendation G.728
pcma	Pulse Code Modulation a-law (PCMA)
g726at16	ITU-T Recommendation G.726-16 (16 kbit/s)
g726at24	ITU-T Recommendation G.726-24 (24 kbit/s)
g726at40	ITU-T Recommendation G.726-40 (40 kbit/s)
ilbc	IETF Internet low-bit rate codec
bv16	Broadcom BroadVoice16

The list of codecs is consistent with the IETF
Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video
Codecs Specification [PKT-SP-CODEC]. The literal codec
name for each codec is listed below:

Codec	Literal Codec Name
g729	G729
g729E	G729E
pcmu	PCMU
g726at32	G726-32
g728	G728
pcma	PCMA
g726at16	G726-16
g726at24	G726-24
g726at40	G726-40
ilbc	iLBC
bv16	BV16

The literal codec name is the second column of the table
with codec RTP Map Parameters. The Literal Codec Name Column
contains the codec name used in the local connection

options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to identify the codec in the Call Management System (CMS) Provisioning Specification. The RTP Map Parameter column of the Table contains the string used in the media attribute line (a=) of the session description protocol (SDP) parameters in NCS messages."

```
  SYNTAX INTEGER {
          other     (1),
          unknown   (2),
          g729      (3),
          reserved  (4),
          g729E     (5),
          pcmu      (6),
          g726at32  (7),
          g728      (8),
          pcma      (9),
          g726at16  (10),
          g726at24  (11),
          g726at40  (12),
          ilbc      (13),
          bv16      (14)
  }

PktcRingCadence   ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
      "This object provides an encoding scheme for ring
```

cadences, including repeatability characteristics. All fields in this object MUST be encoded in network-byte order.

The first three higher-order octets are reserved. The octets that follow are used to encode a 'bit-string', with each bit corresponding to 50 milliseconds. A bit value of '1' indicates the presence of a ring-tone, and a bit value of '0' indicates the absence of a ring-tone, for that duration (50 ms) (Note: A minimum number of octets required to encode the bit-string MUST be used).

The first two of the reserved octets MUST indicate the length of the encoded cadence (in bits) and MUST range between 1 and 264. (Note: The length in bits MUST also be

consistent with the number of octets that encode the
cadence). The MTA MUST ignore any unused bits in the last
octet, but MUST reflect the value as provided on
subsequent SNMP GETs.

The
third of the reserved octets indicates 'repeatability'
and MUST be either 0x80 or 0x00 -- the former value
indicating 'non-repeatability', and the latter indicating
'repeatability'.

The MTA MUST reject attempts to set a value that violates
any of the above requirements."

SYNTAX OCTET STRING (SIZE(4..36))

PktcSigType ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
" This object lists the various types of signaling that may
be supported:

other(1) - set when signaling other than NCS is used
ncs(2) - Network Call Signaling is a derivation of MGCP
(Media Gateway Control Protocol) defined for
IPCablecom/PacketCable MTAs."
SYNTAX INTEGER {
other(1),
ncs(2)
}

DtmfCode::=TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"This TEXTUAL-CONVENTION represents the Dual-Tone
Multi-Frequency (DTMF) Character used
to indicate the start or end of the digit transition
sequence used for caller id or Visual Message Waiting
Indicator (VMWI).

Note: The DTMF code '*' is indicated using 'dtmfcodeStar',
and the DTMF code '#' is indicated using ' dtmfcodeHash'."

```
  SYNTAX      INTEGER {
                dtmfcode0(0),
                dtmfcode1(1),
                dtmfcode2(2),
                dtmfcode3(3),
                dtmfcode4(4),
                dtmfcode5(5),
                dtmfcode6(6),
                dtmfcode7(7),
                dtmfcode8(8),
                dtmfcode9(9),
                dtmfcodeStar(10),
                dtmfcodeHash(11),
                dtmfcodeA(12),
                dtmfcodeB(13),
                dtmfcodeC(14),
                dtmfcodeD(15)
}

PktcSubscriberSideSigProtocol::=TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
     "This TEXTUAL-CONVENTION
 represents the Signaling
      protocol being used for purposes such as caller id
      or VMWI.

      A value of fsk(1) indicates Frequency Shift Keying
      (FSK).
      A value of dtmf(2) indicates Dual-Tone Multi-Frequency
      (DTMF)."
      SYNTAX INTEGER {
           fsk(1),
           dtmf(2)
      }

pktcSigMibObjects OBJECT IDENTIFIER ::= { pktcIetfSigMib 1 }
pktcSigDevObjects OBJECT IDENTIFIER ::=




                              { pktcSigMibObjects 1 }
pktcSigEndPntConfigObjects OBJECT IDENTIFIER ::=
                              { pktcSigMibObjects 2 }
--
-- The codec table (pktcSigDevCodecTable) defines all combinations
-- of codecs supported by the Multimedia Terminal Adapter (MTA).
--
```

pktcSigDevCodecTable OBJECT-TYPE
SYNTAX SEQUENCE OF PktcSigDevCodecEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" This table describes the MTA-supported codec types. An MTA
MUST populate this table with all possible combinations of
codecs it supports for simultaneous operation. For example,
an MTA with two endpoints may be designed with a particular
Digital Signal Processing (DSP) and memory architecture that
allows it to support the following fixed combinations of
codecs for simultaneous operation:

Codec Type Maximum Number of Simultaneous Codecs
PCMA 3

PCMA 2
PCMU 1

PCMA 1

PCMU 2

PCMU 3

PCMA 1
G729 1

G729 2

PCMU 1
G729 1

Based on this example, the entries
in the codec table
would be:

pktcSigDev pktcSigDev pktcSigDev
CodecComboIndex CodecType CodecMax
1 pcma 3
2 pcma 2
2 pcmu 1

3 pcma 1
3 pcmu 2
4 pcmu 3

```
            5           pcma          1
            5           g729          1
            6           g729          2
            7           pcmu          1
            7           g729          1

        An operator querying this table is able to determine all
        possible codec combinations the MTA is capable of
        simultaneously supporting.

        This table MUST NOT include non-voice codecs."
    ::=
  { pktcSigDevObjects 1 }

pktcSigDevCodecEntry  OBJECT-TYPE
    SYNTAX      PktcSigDevCodecEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
       "Each entry represents the maximum number of active
        connections with a particular codec the MTA is capable of
        supporting.  Each row is indexed by a composite key
        consisting of a number enumerating the particular codec
        combination and the codec type."
    INDEX { pktcSigDevCodecComboIndex, pktcSigDevCodecType }
    ::= { pktcSigDevCodecTable 1 }

PktcSigDevCodecEntry  ::= SEQUENCE {
    pktcSigDevCodecComboIndex    Unsigned32,
    pktcSigDevCodecType     PktcCodecType,
    pktcSigDevCodecMax      Unsigned32
    }

pktcSigDevCodecComboIndex  OBJECT-TYPE
    SYNTAX      Unsigned32 (1..255)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
       " The index value that enumerates a particular codec
        combination in the pktcSigDevCodecTable."
    ::=
  { pktcSigDevCodecEntry 1 }

pktcSigDevCodecType  OBJECT-TYPE
    SYNTAX       PktcCodecType
    MAX-ACCESS   not-accessible
    STATUS       current
```

```
  DESCRIPTION
     " A codec type supported by this MTA."
  ::= { pktcSigDevCodecEntry 2 }

pktcSigDevCodecMax  OBJECT-TYPE
  SYNTAX      Unsigned32(1..255)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " The maximum number of simultaneous sessions of a
       particular codec that the MTA can support."
  ::= { pktcSigDevCodecEntry 3 }

--
-- These are the common signaling-related definitions that affect
-- the entire MTA device.
--

pktcSigDevEchoCancellation  OBJECT-TYPE
  SYNTAX       TruthValue
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This object specifies if the device is capable of echo
       cancellation.  The MTA MUST set this MIB object to a
       value of true(1) if it is capable of echo
       cancellation, and a value of false(2) if not."
   ::= { pktcSigDevObjects 2 }

pktcSigDevSilenceSuppression  OBJECT-TYPE
  SYNTAX       TruthValue
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This object specifies if the device is capable of
       silence suppression (as a result of Voice Activity
       Detection).  The MTA MUST set this MIB object to a
       value of true(1) if it is capable of silence
       suppression, and a value of false(2) if not."
::= { pktcSigDevObjects 3 }

pktcSigDevCidSigProtocol  OBJECT-TYPE
  SYNTAX       PktcSubscriberSideSigProtocol
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
```

"This object is used to configure the subscriber-line
protocol used for signaling on-hook caller id information.

Different countries define different caller id signaling
protocols to support caller identification.

Setting this object at a value fsk(1) sets the subscriber
line protocol to be
Frequency Shift Keying (FSK).

Setting this object at a value dtmf(2) sets the subscriber
line protocol to be Dual-Tone Multi-Frequency (DTMF).

The value of this MIB object MUST NOT persist across MTA
reboots."
REFERENCE
"ETSI-EN-300-659-1 Specification"
DEFVAL { fsk }
::= { pktcSigDevObjects 4 }

pktcSigDevR0Cadence OBJECT-TYPE
SYNTAX PktcRingCadence
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object specifies ring cadence 0 (a user-defined
field).

The value of this MIB object MUST NOT persist across MTA
reboots."
::= { pktcSigDevObjects 5 }

pktcSigDevR1Cadence OBJECT-TYPE
SYNTAX PktcRingCadence
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object specifies ring cadence 1 (a user-defined
field).

The value of this MIB object MUST NOT persist across MTA
reboots."

::= { pktcSigDevObjects 6 }

pktcSigDevR2Cadence OBJECT-TYPE

```
  SYNTAX      PktcRingCadence
  MAX-ACCESS    read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 2 (a user-defined
       field).




       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 7 }

pktcSigDevR3Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS   read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 3 (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 8 }

pktcSigDevR4Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS   read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 4 (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
        reboots."
  ::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS   read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 5 (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."
```

```
  ::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 6 (a user-defined
       field).




       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 11 }

pktcSigDevR7Cadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence 7 (a user-defined
       field).

       The value of this MIB object MUST
 NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 12 }

pktcSigDevRgCadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence rg (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 13 }

pktcSigDevRsCadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence rs (a user-defined
```

field). The MTA MUST reject any attempt to make this object repeatable.

The value of this MIB object MUST NOT persist across MTA reboots."
::= { pktcSigDevObjects 14 }

pktcSigDefCallSigDscp OBJECT-TYPE
SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"
The default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for call

signaling.

The value of this MIB object MUST NOT persist across MTA reboots."
DEFVAL { 0 }
::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp OBJECT-TYPE
SYNTAX Dscp -- RFC 3289: DIFFSERV-DSCP-TC
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object contains the default value used in the IP header for setting the Differentiated Services Code Point (DSCP) value for media stream packets. The MTA MUST NOT update this object with the value supplied by the CMS in the NCS messages (if present). Any currently active connections are not affected by updates to this object. When the value of this object is updated by SNMP, the MTA MUST use the new value as a default starting only from new connections.

The value of this MIB object MUST NOT persist across MTA reboots."
DEFVAL { 0 }
::= { pktcSigDevObjects 16 }

--
-- pktcSigCapabilityTable - This table defines the valid signaling
-- types supported by this MTA.

```
--

pktcSigCapabilityTable    OBJECT-TYPE
  SYNTAX        SEQUENCE OF PktcSigCapabilityEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     " This table describes the signaling types supported by this
       MTA."
  ::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry    OBJECT-TYPE
  SYNTAX        PktcSigCapabilityEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     " Entries in pktcMtaDevSigCapabilityTable - list of
       supported signaling types, versions, and vendor extensions




       for this MTA.  Each entry in the list provides for one
       signaling type and version combination.  If the device
       supports multiple versions of the same signaling
 type, it
       will require multiple entries."
  INDEX { pktcSigCapabilityIndex }
  ::= { pktcSigCapabilityTable 1 }

PktcSigCapabilityEntry  ::= SEQUENCE {
  pktcSigCapabilityIndex           Unsigned32,
  pktcSigCapabilityType            PktcSigType,
  pktcSigCapabilityVersion          SnmpAdminString,
  pktcSigCapabilityVendorExt        SnmpAdminString
  }

pktcSigCapabilityIndex       OBJECT-TYPE
  SYNTAX        Unsigned32 (1..255)
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     " The index value that uniquely identifies an entry in the
       pktcSigCapabilityTable."
  ::= { pktcSigCapabilityEntry 1 }

pktcSigCapabilityType      OBJECT-TYPE
  SYNTAX        PktcSigType
  MAX-ACCESS    read-only
```

```
  STATUS       current
  DESCRIPTION
     " This object identifies the type of signaling used.  This
       value has to be associated with a single signaling
       version."
  ::= { pktcSigCapabilityEntry
 2 }

pktcSigCapabilityVersion      OBJECT-TYPE
  SYNTAX       SnmpAdminString
  MAX-ACCESS    read-only
  STATUS       current
  DESCRIPTION
     " Provides the version of the signaling type - reference
       pktcSigCapabilityType.  Examples would be 1.0 or 2.33 etc."
  ::= { pktcSigCapabilityEntry 3 }

pktcSigCapabilityVendorExt      OBJECT-TYPE
  SYNTAX       SnmpAdminString
  MAX-ACCESS    read-only
  STATUS       current
  DESCRIPTION
     " The vendor extension allows vendors to provide a list of




       additional capabilities.

       The syntax for this MIB object in ABNF ([RFC5234]) is
       specified to be zero or more occurrences of vendor
       extensions, as follows:

        pktcSigCapabilityVendorExt  = *(vendor-extension)
        vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE
        ext      = DQUOTE %x58 DQUOTE
        symbol   = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)
        alphanum = 1*6(ALPHA/DIGIT)

      "
  ::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort  OBJECT-TYPE
  SYNTAX      InetPortNumber (1025..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the MTA User Datagram Protocol (UDP)
       receive port that is being used for NCS call signaling.
```

```
        This object should only be changed by the configuration
        file.

        Unless changed via configuration, this MIB object MUST
        reflect a value of '2427'."
    REFERENCE
       "PacketCable NCS Specification"
    ::= { pktcSigDevObjects 18 }

pktcSigPowerRingFrequency    OBJECT-TYPE
    SYNTAX      INTEGER {
                f20Hz(1),
                f25Hz(2),
                f33Point33Hz(3),
                f50Hz(4),
                f15Hz(5),
                f16Hz(6),
                f22Hz(7),
                f23Hz(8),
                f45Hz(9)
    }
    MAX-ACCESS   read-only
    STATUS      current
     DESCRIPTION
       " This object must only be provided via the configuration
        file during the provisioning process.  The power ring



        frequency is the frequency at which the sinusoidal voltage
        must travel down the twisted pair to make terminal
        equipment ring.  Different countries define different
        electrical characteristics to make terminal equipment
        ring.

        The f20Hz setting corresponds to a power ring frequency
        of 20 Hertz.  The f25Hz setting corresponds to a power ring
        frequency of 25 Hertz.  The f33Point33Hz setting
        corresponds to a power ring frequency of 33.33 Hertz.  The
        f50Hz setting corresponds to a power ring frequency of 50
        Hertz.  The f15Hz setting corresponds to a power ring
        frequency of 15 Hertz.  The f16Hz setting corresponds to a
        power ring frequency of 16 Hertz.  The f22Hz setting
        corresponds to a power ring frequency of
   22 Hertz.  The
        f23Hz setting corresponds to a power ring frequency of 23
        Hertz.  The f45Hz setting corresponds to a power ring
        frequency of 45 Hertz."
```

```
  REFERENCE
      "ETSI-EN-300-001"
  ::= { pktcSigDevObjects 19 }

pktcSigPulseSignalTable    OBJECT-TYPE
  SYNTAX       SEQUENCE OF PktcSigPulseSignalEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     " The Pulse signal table defines the pulse signal operation.
       There are nine types of international pulse signals,
       with each signal having a set of provisionable parameters.
       The values of the MIB objects in this table take effect
       only if these parameters are not defined via signaling, in
       which case, the latter determines the values of the
       parameters.  The MIB objects in this table do not persist
       across MTA reboots."
  REFERENCE
     "ETSI-TS-101-909-4 Specification"
  ::= { pktcSigDevObjects
 20 }

pktcSigPulseSignalEntry    OBJECT-TYPE
  SYNTAX       PktcSigPulseSignalEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     " This object defines the set of parameters associated with
       each particular value of pktcSigPulseSignalType.  Each
       entry in the pktcSigPulseSignalTable is indexed by the
       pktcSigPulseSignalType object.



       The conceptual rows MUST NOT persist across MTA reboots."
  INDEX { pktcSigPulseSignalType }
  ::= { pktcSigPulseSignalTable 1 }

PktcSigPulseSignalEntry ::= SEQUENCE {
      pktcSigPulseSignalType             INTEGER,
      pktcSigPulseSignalFrequency        INTEGER,
      pktcSigPulseSignalDbLevel          TenthdBm,
      pktcSigPulseSignalDuration         Unsigned32,
      pktcSigPulseSignalPulseInterval    Unsigned32,
      pktcSigPulseSignalRepeatCount      Unsigned32
}

pktcSigPulseSignalType    OBJECT-TYPE
```

```
  SYNTAX      INTEGER
              {
                 initialRing(1),
                 pulseLoopClose(2),
                 pulseLoopOpen(3),
                 enableMeterPulse(4),
                 meterPulseBurst(5),
                 pulseNoBattery(6),
                 pulseNormalPolarity(7),
                 pulseReducedBattery(8),
                 pulseReversePolarity(9)
              }
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     "There are nine types of international pulse signals.  These
      signals are defined as follows:
      initial ring
      pulse loop close
      pulse loop open
      enable meter pulse
      meter pulse burst
      pulse no battery
      pulse normal polarity
      pulse reduced battery
      pulse reverse polarity"
  REFERENCE
     "ETSI-EN-300-324-1 Specification"

  ::= { pktcSigPulseSignalEntry 1 }

pktcSigPulseSignalFrequency    OBJECT-TYPE
  SYNTAX      INTEGER {

        twentyfive(1),



            twelvethousand(2),
            sixteenthousand(3)
  }
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object is only applicable to the initialRing,
       enableMeterPulse, and meterPulseBurst signal types.  This
       object identifies the frequency of the generated signal.
       The following table defines the default values for this
```

object depending on signal type:

pktcSigPulseSignalType Default
initialRing 25
enableMeterPulse 16000
meterPulseBurst 16000

The value of twentyfive MUST only be used for the initialRing signal type. The values of twelvethousand and sixteenthousand MUST only be used for enableMeterPulse and meterPulseBurst signal types. An attempt to set this object while the value of pktcSigPulseSignalType is not initialRing,
enableMeterPulse, or meterPulseBurst will result in an 'inconsistentValue' error."
REFERENCE
"ETSI-EN-300-001 Specification"
::= { pktcSigPulseSignalEntry 2}

pktcSigPulseSignalDbLevel OBJECT-TYPE
SYNTAX TenthdBm (-350..0)
UNITS "1/10 of a dBm"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object is only applicable to the enableMeterPulse and meterPulseBurst signal types. This is the decibel level for each frequency at which tones could be generated at the a and b terminals (TE connection point). An attempt to set this object while the value of pktcSigPulseSignalType is not enableMeterPulse or meterPulseBurst will result in an 'inconsistentValue' error."
REFERENCE
"ETSI-EN-300-001 Specification"

DEFVAL { -135 }
::={pktcSigPulseSignalEntry 3 }

pktcSigPulseSignalDuration OBJECT-TYPE

SYNTAX Unsigned32
(0..5000)
UNITS "Milliseconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION

```
      " This object specifies the pulse duration for each
        signal type.  In addition, the MTA must accept the values
        in the incremental steps specific for each signal type.
        The following table defines the default values and the
        incremental steps for this object depending on the signal
        type:

        pktcSigPulseSignaltype  Default (ms)   Increment (ms)
        initialRing             200            50
        pulseLoopClose          200            10
        pulseLoopOpen           200            10
        enableMeterPulse        150            10
        meterPulseBurst         150            10
        pulseNoBattery          200            10
        pulseNormalPolarity     200            10
        pulseReducedBattery     200            10
        pulseReversePolarity
        200            10

        An attempt to set this object to a value that does not
        fall on one of the increment boundaries, or on the wrong
        increment boundary for the specific signal type, will
        result in an 'inconsistentValue' error."
    REFERENCE
      "ETSI-EN-300-324-1 Specification"
      ::= {pktcSigPulseSignalEntry 4 }

pktcSigPulseSignalPulseInterval     OBJECT-TYPE
    SYNTAX      Unsigned32 (0..5000)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
      " This object specifies the repeat interval, or the period,
        for each signal type.  In addition, the MTA must accept
        the values in the incremental steps specific for each
        signal type.  The following table defines the default
        values and the incremental steps for this object, depending
        on the signal type:

        pktcSigPulseSignaltype  Default (ms)   Increment (ms)
         initialRing            200            50
        pulseLoopClose          1000           10
        pulseLoopOpen           1000           10



        enableMeterPulse        1000           10
```

meterPulseBurst 1000 10
pulseNoBattery 1000 10
pulseNormalPolarity 1000 10
pulseReducedBattery 1000 10
pulseReversePolarity 1000 10

An attempt to set this object to a value that does not fall on one of the increment boundaries, or on the wrong increment boundary for the specific signal type, will result in an 'inconsistentValue' error."

REFERENCE
"ETSI-EN-300-324-1 Specification"
::= { pktcSigPulseSignalEntry 5}

pktcSigPulseSignalRepeatCount OBJECT-TYPE
SYNTAX Unsigned32 (1..50)
MAX-ACCESS read-write
STATUS current

DESCRIPTION
" This object specifies how many times to repeat a pulse. This object is not used by the enableMeterPulse signal type, and in that case, the value is irrelevant. The following table defines the default values and the valid ranges for this object, depending on the signal type:

pktcSigPulseSignaltype Default Range

initialRing 1 1-5
pulseLoopClose 1 1-50
pulseLoopOpen 1 1-50
enableMeterPulse (any value)(but not used)
meterPulseBurst 1 1-50
pulseNoBattery 1 1-50
pulseNormalPolarity 1 1-50
pulseReducedBattery 1 1-50
pulseReversePolarity 1 1-50

An attempt to set this object to a value that does not fall within the range for the specific signal type will result in an 'inconsistentValue' error."

::={ pktcSigPulseSignalEntry 6 }

pktcSigDevCidMode OBJECT-TYPE
SYNTAX INTEGER {
duringRingingETS(1),
dtAsETS(2),

```
            rpAsETS(3),



            lrAsETS(4),
            lrETS(5)
            }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       " For on-hook caller id, pktcSigDevCidMode selects the method
        for representing and signaling caller identification.  For
        the duringRingingETS method, the Frequency Shift Keying
        (FSK) or the Dual-Tone Multi-Frequency (DTMF) containing
        the caller identification information is sent between the
        first and second ring pattern.

        For the dtAsETS,rpAsETS, lrAsETS and lrETS
        methods, the FSK or DTMF containing the caller id
        information is sent before the first ring pattern.

        For the dtAsETS method, the FSK or DTMF is sent after the
        Dual
   Tone Alert Signal.  For the rpAsETS method, the FSK or
        DTMF is sent after a Ring Pulse.

        For the lrAsETS method, the Line Reversal occurs first,
        then the Dual Tone Alert Signal, and, finally, the FSK or
        DTMF is sent.

        For the lrETS method, the Line Reversal occurs first,
        then the FSK or DTMF is sent.

        The value of this MIB object MUST NOT persist across MTA
        reboots."

    DEFVAL { rpAsETS}
    ::= {pktcSigDevObjects 21 }

  pktcSigDevCidAfterRing     OBJECT-TYPE
    SYNTAX       Unsigned32 (0|50..2000)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies the delay between the end of first
        ringing pattern and the start of the transmission of the
        FSK or DTMF containing the caller id information.  It is
```

only used when pktcSigDevCidMode is set to a value of
'duringRingingETS'.

The following
table defines the default values
for this MIB object, depending on the signal type

(pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	550 ms
dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of
pktcSigDevCidMode is not duringringingETS will result in
an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."
REFERENCE
"ETSI-EN-300-659-1 Specification"
DEFVAL { 550 }
::= {pktcSigDevObjects 22 }

pktcSigDevCidAfterDTAS OBJECT-TYPE
SYNTAX Unsigned32 (0|45..500)
UNITS "Milliseconds"
MAX-ACCESS
read-write
STATUS current
DESCRIPTION
" This object specifies the delay between the end of the
Dual Tone Alert Signal (DT-AS) and the start of the
transmission of the FSK or DTMF containing the caller id
information. This object is only used when
pktcSigDevCidMode is set to a value of 'dtAsETS' or
'lrAsETS'.

The following table defines the default values
for this MIB object, depending on the signal type
(pktcSigDevCidMode), and MUST be followed:

```
        Value of pktcSigDevCidMode       Default value


        duringringingETS              any value (not used)
        dtAsETS                       50 ms
        rpAsETS                       any value (not used)
        lrAsETS                       50 ms
        lrETS                         any value (not used)

        An attempt to set this object while the value of



        pktcSigDevCidMode
 is not 'dtAsETS' or 'lrAsETS' will
        result in an 'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 50 }
  ::= {pktcSigDevObjects 23 }

pktcSigDevCidAfterRPAS    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|500..800)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Ring Pulse Alert Signal (RP-AS) and the start of the
       transmission of the FSK or DTMF containing the caller id
       information.  This MIB object is only used when
       pktcSigDevCidMode is set to a value of 'rpAsETS'.
       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevCidMode), and MUST be followed:

        Value of pktcSigDevCidMode       Default
 value

        duringringingETS              any value  (not used)
        dtAsETS                       any value  (not used)
        rpAsETS                       650 ms
        lrAsETS                       any value  (not used)
        lrETS                         any value  (not used)
```

```
        An attempt to set this object while the value of
        pktcSigDevCidMode is not 'rpAsETS' will result in an
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification"
    DEFVAL { 650 }
    ::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID    OBJECT-TYPE
    SYNTAX       Unsigned32 (0|50..500)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write



    STATUS       current
    DESCRIPTION
       " This object specifies the delay between the end of the
        complete transmission of the FSK or DTMF containing the
        caller
 id information and the start of the first ring
        pattern.  It is only used when pktcSigDevCidMode is
        set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or
        'lrETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevCidMode), and MUST be followed:

        Value of pktcSigDevCidMode       Default value

        duringringingETS               any value  (not used)
        dtAsETS                        250 ms
        rpAsETS                        250 ms
        lrAsETS                        250 ms
        lrETS                         250 ms

        An attempt to set this object while the value of
        pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS',
        'lrAsETS', or 'lrETS' will result in an 'inconsistent
        value' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
```

```
   "ETSI-EN-300-659-1 Specification"
  DEFVAL { 250 }
  ::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR    OBJECT-TYPE
  SYNTAX       Unsigned32 (50..655)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Line Reversal and the start of the Dual Tone Alert Signal
       (DT-AS).  This object is only used when pktcSigDevCidMode
       is set to a value of 'lrAsETS'.

       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevCidMode), and MUST be followed:




       Value of pktcSigDevCidMode       Default value

       duringringingETS                 any value  (not used)
       dtAsETS                         any value  (not used)
       rpAsETS                         any value  (not used)
       lrAsETS                        250 ms
       lrETS
                     any value  (not used)

       An attempt to set this object while the value of
       pktcSigDevCidMode is not lrAsETS will result in an
       'inconsistentValue' error.

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 250 }

  ::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode    OBJECT-TYPE
  SYNTAX       INTEGER {
               dtAsETS(1),
               rpAsETS(2),
```

```
            lrAsETS(3),
            osi(4),
            lrETS(5)
            }
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION
     " For visual message waiting indicator (VMWI),
       pktcSigDevVmwiMode selects the alerting signal method.  For
       the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods,
       the FSK containing the VMWI information is sent after an
       alerting signal.

       For the dtAsETS method,
 the FSK, or DTMF
       is sent after the Dual Tone Alert Signal.  For the rpAsETS
       method, the FSK or DTMF is sent after a Ring Pulse.

       For the lrAsETS method, the Line Reversal occurs first,
       then the Dual Tone Alert Signal, and, finally, the FSK or
       DTMF is sent.

       For the OSI method, the FSK or DTMF is sent after the Open
       Switching Interval.




       For the lrETS method, the Line Reversal occurs first,
       then the FSK or DTMF is sent.

       The value of this MIB object MUST NOT persist across MTA
       reboots."

  DEFVAL { rpAsETS }
  ::= {pktcSigDevObjects 27 }

pktcSigDevVmwiAfterDTAS    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|45..500)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Dual Tone Alert Signal (DT-AS) and the start of the
       transmission of the
 FSK or DTMF containing the VMWI
       information.
```

```
        This object is only used when pktcSigDevVmwiMode is
        set to a value of 'dtAsETS' or 'lrAsETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevVmwiMode), and MUST be followed:

        Value of pktcSigDevVmwiMode       Default value

        dtAsETS                            50 ms
        rpAsETS                            any value  (not used)
        lrAsETS                           50 ms
        lrETS                            any value  (not used)

        An attempt to set this object while the value of
        pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will
        result in an 'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 50 }
  ::= {pktcSigDevObjects 28
 }


pktcSigDevVmwiAfterRPAS    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|500..800)



  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Ring Pulse Alert Signal (RP-AS) and the start of the
       transmission of the FSK or DTMF containing the VMWI
       information.

       This object is only used when pktcSigDevVmwiMode is
       set to a value of 'rpAsETS'.

       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevVmwiMode), and MUST be followed:
```

```
        Value of pktcSigDevVmwiMode       Default value

        dtAsETS                    any value  (not used)
        rpAsETS                    650 ms
        lrAsETS                    any value  (not used)
        lrETS                      any value  (not used)

        An attempt
 to set this object while the value of
        pktcSigDevVmwiMode is not 'rpAsETS' will result in an
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
   REFERENCE
      "ETSI-EN-300-659-1 Specification"
   DEFVAL { 650 }
   ::= {pktcSigDevObjects 29 }

pktcSigDevVmwiDTASAfterLR    OBJECT-TYPE
   SYNTAX       Unsigned32 (0|50..655)
   UNITS        "Milliseconds"
   MAX-ACCESS   read-write
   STATUS       current
   DESCRIPTION
      " This object specifies the delay between the end of the
        Line Reversal and the start of the Dual Tone Alert Signal
        (DT-AS) for VMWI information.  This object is only used
        when pktcSigDevVmwiMode is set to a value of 'lrAsETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevVmwiMode), and MUST be followed:




        Value of pktcSigDevVmwiMode
       Default value

        dtAsETS                    any value  (not used)
        rpAsETS                    any value  (not used)
        lrAsETS                    250 ms
        lrETS                      any value  (not used)

        An attempt to set this object while the value of
        pktcSigDevVmwiMode is not 'lrAsETS' will result in an
```

```
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification"
    DEFVAL { 250 }
    ::= {pktcSigDevObjects 30 }

pktcSigDevRingCadenceTable    OBJECT-TYPE
    SYNTAX       SEQUENCE OF PktcSigDevRingCadenceEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
       "Cadence rings are defined by the telco governing
        body for each country.  The MTA must be able to support
        various ranges of cadence patterns and cadence periods.
        The
 MTA will be able to support country-specific
        provisioning of the cadence and idle period.  Each
        cadence pattern will be assigned a unique value ranging
        from 0-127 (inclusive) corresponding to the value of x,
        where x is the value sent in the cadence ringing (cr)
        signal cr(x), requested per the appropriate NCS
        message, and defined in the E package.  The MTA will derive
        the cadence periods from the ring cadence table entry, as
        provisioned by the customer.  The MTA is allowed to provide
        appropriate default values for each of the ring cadences.
        This table only needs to be supported when the MTA
        implements the E package."
    REFERENCE
       "ETSI-TS-101-909-4 Specification"
    ::= { pktcSigDevObjects 31 }

pktcSigDevRingCadenceEntry    OBJECT-TYPE
    SYNTAX       PktcSigDevRingCadenceEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION




       " Each entry in
 this row corresponds to a ring cadence
        that is being supported by the device.  The conceptual
        rows MUST NOT persist across MTA reboots."
    INDEX { pktcSigDevRingCadenceIndex }
    ::= { pktcSigDevRingCadenceTable 1 }
```

```
PktcSigDevRingCadenceEntry ::= SEQUENCE {
      pktcSigDevRingCadenceIndex       Unsigned32,
      pktcSigDevRingCadence            PktcRingCadence
   }

pktcSigDevRingCadenceIndex    OBJECT-TYPE
   SYNTAX       Unsigned32 (0..127)
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
      " A unique value ranging from 0 to 127 that corresponds to the
        value sent by the LE based on country-specific cadences,
        one row per cadence cycle.  In any given system
        implementation for a particular country, it is anticipated
        that a small number of ring cadences will be in use.  Thus,
        this table most likely will not be populated to its full
        size."
   ::= { pktcSigDevRingCadenceEntry
 1 }

pktcSigDevRingCadence    OBJECT-TYPE
   SYNTAX       PktcRingCadence
   MAX-ACCESS   read-write
   STATUS       current
   DESCRIPTION
      "This is the Ring Cadence."
   ::= { pktcSigDevRingCadenceEntry 2 }


pktcSigDevToneTable    OBJECT-TYPE
   SYNTAX       SEQUENCE OF PktcSigDevToneEntry
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
      " The Tone Table defines the composition of tones and
        various tone operations.

        The definition of the tones callWaiting1 through
        callWaiting4 in this table MUST only contain the
        audible tone itself; the delay between tones or the value
        of the tone repeat count are not applicable for the call
        waiting tones.




        The delay between tones or the repeat count is controlled
```

```
        by the objects pktcSigEndPntConfigCallWaitingDelay and
        pktcSigEndPntConfigCallWaitingMaxRep.  If the
        pktcSigDevToneType is set to either
 of the values
        callWaiting1, callWaiting2, callWaiting3, or callWaiting4,
        then the value of the pktcSigDevToneWholeToneRepeatCount
        object indicates that the particular frequency group is
        applicable, as a repeatable part of the tone, based on the
        value of the MIB object
        pktcSigDevToneWholeToneRepeatCount.

        The MTA MUST make sure that, after the provisioning
        cycle, the table is fully populated (i.e., for each
        possible index, an entry MUST be defined) using
        reasonable defaults for each row that was not defined
        by the provisioning information delivered via MTA
        Configuration.

        The frequency composition of each tone is defined by the
        pktcSigDevMultiFreqToneTable.  For each tone type defined
        in pktcSigDevToneTable, the MTA MUST populate at least
        one entry in the pktcSigDevMultiFreqToneTable.

        For each particular value of pktcSigDevToneType,
 the
        pktcSigDevToneTable table can define non-repeating and
        repeating groups of the frequencies defined by the
        pktcSigDevMultiFreqToneTable, such that each group is
        represented by the set of the consecutive rows
        (frequency group) in the pktcSigDevMultiFreqToneTable.

        Objects in this table do not persist across MTA reboots.
        For tones with multiple frequencies refer to the MIB table
        pktcSigDevMultiFreqToneTable."
   REFERENCE
      "PacketCable NCS Specification, ETSI-TS-101-909-4
      Specification."
   ::= { pktcSigDevObjects 32 }

pktcSigDevToneEntry    OBJECT-TYPE
   SYNTAX       PktcSigDevToneEntry
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
      " The different tone types that can be provisioned based on
        country-specific needs.

        Each entry contains the tone generation parameters for
```

a specific frequency group of the specific
Tone Type.

The different parameters can be provisioned via MTA
configuration based on country specific needs.
An MTA MUST populate all entries of this table for each
tone type."
INDEX { pktcSigDevToneType, pktcSigDevToneFreqGroup }
::= { pktcSigDevToneTable 1 }

PktcSigDevToneEntry ::= SEQUENCE {
pktcSigDevToneType INTEGER,
pktcSigDevToneFreqGroup Unsigned32,
pktcSigDevToneFreqCounter Unsigned32,
pktcSigDevToneWholeToneRepeatCount Unsigned32,
pktcSigDevToneSteady TruthValue
}

pktcSigDevToneType OBJECT-TYPE
SYNTAX INTEGER {
busy(1),
confirmation(2),
dial(3),
messageWaiting(4),
offHookWarning(5),
ringBack(6),
reOrder(7),
stutterdial(8),
callWaiting1(9),

callWaiting2(10),
callWaiting3(11),
callWaiting4(12),
alertingSignal(13),
specialDial(14),
specialInfo(15),
release(16),
congestion(17),
userDefined1(18),
userDefined2(19),
userDefined3(20),
userDefined4(21)
}
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

```
        "A unique value that will correspond to the different
        tone types.  These tones can be provisioned based on
        country-specific needs.  This object defines the type
        of tone being accessed.

        The alertingSignal, specialDial, specialInfo, release,



        congestion, userDefined1, userDefined2, userDefined3,
        and userDefined4 tone types are used in
        the E line package."
    ::= { pktcSigDevToneEntry 1 }

pktcSigDevToneFreqGroup  OBJECT-TYPE

    SYNTAX       Unsigned32(1..4)
      MAX-ACCESS   not-accessible
      STATUS       current
      DESCRIPTION
        "This MIB object represents the Tone Sequence reference
        of a multi-sequence tone."
      ::={ pktcSigDevToneEntry 2}

pktcSigDevToneFreqCounter OBJECT-TYPE
      SYNTAX       Unsigned32(1..8)
      MAX-ACCESS   read-only
      STATUS       current
      DESCRIPTION
        "This MIB object represents the number of consecutive
        multi-frequency tones for the particular tone type in
        the multi-frequency table (pktcSigDevMultiFreqToneTable).

        Such a sequence of the consecutive multi-frequency tones
        forms the tone group for the particular tone type in the
        pktcSigDevToneTable."
      ::={ pktcSigDevToneEntry 3}

pktcSigDevToneWholeToneRepeatCount      OBJECT-TYPE
    SYNTAX       Unsigned32 (0..5000)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
       "This is the repeat count,
 which signifies how many times
       to repeat the entire on-off cadence sequence.  Setting this
       object may result in a cadence duration longer or shorter
       than the overall signal duration specified by the time out
```

(TO) object for a particular signal. If the repeat count
results in a longer tone duration than the signal duration
specified by the TO, the tone duration defined by the
TO object for a particular signal always represents
the overall signal duration for a tone. In this case, the
tone duration repeat count will not be fully exercised, and
the desired tone duration will be truncated per the TO
setting. If the repeat count results in a shorter tone
duration than the signal duration specified by the TO, the
tone duration defined by the repeat count takes precedence
over the TO and will end the signal event. In this case,

the TO represents a
time not to be exceeded for the signal.
It is recommended to ensure proper telephony signaling so that
the TO duration setting should always be longer than the
desired repeat count-time duration."
::={ pktcSigDevToneEntry 4 }

pktcSigDevToneSteady OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This MIB object represents the steady tone status. A value
of 'true(1)' indicates that the steady tone is applied, and
a value of 'false(2)' indicates otherwise.
Devices must play out the on-off cadence sequence for
the number of times indicated by the MIB object
'pktcSigDevToneWholeToneRepeatCount' prior to applying the
last tone steadily, indefinitely. If the MIB table
'pktcSigDevToneTable' contains multiple rows with this
Object set to a value of 'true(1)', the steady tone is
applied to the last repeating frequency
group of the tone.

Setting this MIB object may result in a tone duration that is
longer or shorter than the overall signal duration
specified by the time out (TO) MIB object for a particular
signal. If the repeat count results in a longer tone
duration than the signal duration specified by the TO, the
tone duration defined by the TO object for a particular
signal always represents the overall signal duration for a
tone. In this case, the tone duration repeat count will
not be fully exercised, and the desired tone duration will
be truncated per the TO setting. If the repeat count

```
      results in a shorter tone duration than the signal duration
      specified by the TO, the tone duration defined by the
      repeat count takes precedence over the TO and will end the
      signal event.  In this case, the TO represents a time not to
      be exceeded for the signal.


   It is recommended to ensure proper telephony signaling that
      The TO duration setting should always be longer than the
      desired repeat count-time duration, plus the desired maximum
      steady tone period."
  ::={ pktcSigDevToneEntry 5 }

pktcSigDevMultiFreqToneTable    OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcSigDevMultiFreqToneEntry
    MAX-ACCESS   not-accessible
    STATUS      current



    DESCRIPTION
        " This MIB table defines the characteristics of tones
          with multiple frequencies.  The constraints imposed
          on the tones by the MIB table pktcSigDevToneTable
          need to be considered for MIB objects in this table
          as well.

          The MTA MUST populate the corresponding row(s)
          of the pktcSigDevMultiFreqToneTable for each tone
          defined in the pktcSigDevToneTable.

          The contents of the table may be provisioned via
          MTA configuration."
     REFERENCE
        "PacketCable NCS Specification, ETSI-TS-101-909-4
         Specification."
    ::= { pktcSigDevObjects 33 }

pktcSigDevMultiFreqToneEntry    OBJECT-TYPE
    SYNTAX      PktcSigDevMultiFreqToneEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
        " The different tone types with multiple frequencies
          that can be provisioned based on country-specific
          needs."
    INDEX {pktcSigDevToneType, pktcSigDevToneNumber}
    ::= { pktcSigDevMultiFreqToneTable 1 }
```

```
PktcSigDevMultiFreqToneEntry ::= SEQUENCE {
     pktcSigDevToneNumber                Unsigned32,
     pktcSigDevToneFirstFreqValue        Unsigned32,
     pktcSigDevToneSecondFreqValue       Unsigned32,
     pktcSigDevToneThirdFreqValue        Unsigned32,
     pktcSigDevToneFourthFreqValue       Unsigned32,
     pktcSigDevToneFreqMode              INTEGER,
     pktcSigDevToneFreqAmpModePrtg
       Unsigned32,
     pktcSigDevToneDbLevel               TenthdBm,
     pktcSigDevToneFreqOnDuration        Unsigned32,
     pktcSigDevToneFreqOffDuration       Unsigned32,
     pktcSigDevToneFreqRepeatCount       Unsigned32
}

pktcSigDevToneNumber OBJECT-TYPE
   SYNTAX      Unsigned32(1..8)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION



      "This MIB object represents the frequency reference
       of a multi-frequency tone."
   ::={ pktcSigDevMultiFreqToneEntry 1}

pktcSigDevToneFirstFreqValue    OBJECT-TYPE
   SYNTAX      Unsigned32(0..4000)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This MIB object represents the value of the first
      frequency of a tone type.  A value of zero implies
      absence of the referenced frequency."
   ::={ pktcSigDevMultiFreqToneEntry 2}

pktcSigDevToneSecondFreqValue
 OBJECT-TYPE
   SYNTAX      Unsigned32(0..4000)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This MIB object represents the value of the second
      frequency of a tone type.  A value of zero implies
      absence of the referenced frequency."
   ::={ pktcSigDevMultiFreqToneEntry 3}
```

```
pktcSigDevToneThirdFreqValue    OBJECT-TYPE
    SYNTAX      Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the value of the third
       frequency of a tone type.  A value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 4}

pktcSigDevToneFourthFreqValue    OBJECT-TYPE
    SYNTAX      Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the value of the fourth
       frequency of a tone type.  A
value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 5}

pktcSigDevToneFreqMode OBJECT-TYPE
    SYNTAX      INTEGER {
                firstModulatedBySecond(1),
                summation(2)



                }
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
    "This MIB object provides directive on the
     modulation or summation of the frequencies
     involved in the tone.

     It is to be noted that while summation can
     be done without any constraint on the number
     of frequencies, the modulation (amplitude)
     holds good only when there are two frequencies
     (first and second).

     Thus:
       - If the mode is set to a value of
         'firstModulatedBySecond(1)', the first frequency
         MUST be modulated by the second, and the remaining
         frequencies (third and fourth) ignored.  The
```

```
        percentage
of amplitude modulation to be applied
        is defined by the MIB object
        pktcSigDevToneFreqAmpModePrtg.

       - If the mode is set to a value of
        'summation(2)', all the frequencies MUST be
        summed without any modulation.
    "
    ::={ pktcSigDevMultiFreqToneEntry 6}

pktcSigDevToneFreqAmpModePrtg OBJECT-TYPE
    SYNTAX      Unsigned32(0..100)
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the percentage of amplitude
       modulation applied to the second frequency
       when the MIB object pktcSigDevToneFreqMode is
       set to a value of 'firstModulatedBySecond (1)'.

       If the MIB object pktcSigDevToneFreqMode is set to
       value of 'summation (2)', then this MIB object MUST be
       ignored."
    ::={ pktcSigDevMultiFreqToneEntry 7}

pktcSigDevToneDbLevel    OBJECT-TYPE
   SYNTAX      TenthdBm (-250..-110)
   UNITS
     "1/10 of a dBm"
   MAX-ACCESS   read-only



   STATUS      current
   DESCRIPTION
      "This MIB object contains the decibel level for each
       analog signal (tone) that is locally generated
       (versus in-band supervisory tones) and sourced to
       the a-b terminals (TE connection point).  Each tone
       in itself may consist of multiple frequencies, as
       defined by the MIB table pktcSigDevMultiFreqToneTable.

       This MIB object reflects the desired level at
       the Telco (POTS) a-b (T/R) terminals, including the
       effect of any MTA receiver gain (loss).  This is required
       so that locally generated tones are consistent with
       remotely generated in-band tones at the a-b terminals,
```

```
        consistent with user expectations.

        This MIB object must be set for each tone.
        When tones are formed by combining multi-frequencies,
        the level of each frequency
shall be set so as to result
        in the tone level specified in this object at the a-b
        (T/R) terminals.

        The wide range of levels for this Object is required
        to provide signal-generator levels across the wide
        range of gains (losses) -- but does not imply the entire
        range is to be achievable given the range of gains (losses)
        in the MTA."
 DEFVAL { -120 }
 ::={ pktcSigDevMultiFreqToneEntry 8}

 pktcSigDevToneFreqOnDuration OBJECT-TYPE
    SYNTAX      Unsigned32(0..5000)
    UNITS       "milliseconds"
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the duration for which the
       frequency reference corresponding to the tone type
       is turned on."
    ::={ pktcSigDevMultiFreqToneEntry 9}

 pktcSigDevToneFreqOffDuration OBJECT-TYPE
    SYNTAX      Unsigned32(0..5000)
    UNITS       "milliseconds"
    MAX-ACCESS
 read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the duration for which the




        frequency reference corresponding to the tone type
        is turned off."
    ::={ pktcSigDevMultiFreqToneEntry 10}

 pktcSigDevToneFreqRepeatCount OBJECT-TYPE
    SYNTAX      Unsigned32(0..5000)
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
```

"This MIB object indicates the number of times
to repeat the cadence cycle represented by the
on/off durations (refer to the MIB objects
pktcSigDevToneFreqOnDuration and
pktcSigDevToneFreqOffDuration).

Setting this object may result in a tone duration that is
longer or shorter than the overall signal duration
specified by the time out (TO) object for the
corresponding tone type. If the value of this MIB
Object indicates a longer duration than that
specified by the TO, the latter overrules
the former,
and the desired tone duration will be truncated according
to the TO.

However, if the repeat count results in a shorter
tone duration than the signal duration specified by
the TO, the tone duration defined by the repeat count
takes precedence over the TO and will end the signal
event. In this case, the TO represents a time not to
be exceeded for the signal. It is recommended, to
ensure proper telephony signaling, that the TO
duration setting should always be longer than the
desired repeat count-time duration. A value of zero
means the tone sequence is to be played once but not
repeated."
::={ pktcSigDevMultiFreqToneEntry 11}

pktcSigDevCidDelayAfterLR OBJECT-TYPE
SYNTAX Unsigned32 (300..800)
UNITS "Milliseconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object specifies the delay between
the end of the
Line Reversal and the start of the FSK or DTMF signal.
This MIB object is used only when pktcSigDevCidMode is
set to a value of 'lrETS'. This timing has a range of
300 to 800 ms.

The following table defines the default values
for this MIB object, depending on the signal type
(pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode Default value

duringringingETS any value (not used)
dtAsETS any value (not used)
rpAsETS any value (not used)
lrAsETS any value (not used)
lrETS 400

An attempt to set this object while the value of
pktcSigDevCidMode is not set to a value of 'lrETS' will
result in an 'inconsistentValue' error.

The value of this
MIB object MUST NOT persist across MTA
reboots."
DEFVAL { 400 }
::= {pktcSigDevObjects 34 }

pktcSigDevCidDtmfStartCode OBJECT-TYPE
SYNTAX DtmfCode
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object identifies optional start codes used when
the MIB object pktcSigDevCidSigProtocol is set
to a value of 'dtmf(2)'.

Different countries define different caller id signaling
codes to support caller identification. When Dual-Tone
Multi-Frequency (DTMF) is used, the caller id digits are
preceded by a 'start code' digit, followed by the digit
transmission sequence <S1>...<Sn> (where Sx represents
the digits 0-9), and terminated by the 'end code' digit.

For example,
<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.
The start code for calling number delivery may be DTMF

'A' or 'D'. The start code for redirecting a number may be
DTMF 'D'. The DTMF code 'B' may be sent by the network
as a start code for the transfer of information values,
through which special events can be indicated to the
user. In some countries, the '*' or '#' may be used
instead of 'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA

reboots."
REFERENCE
"ETSI-EN-300-659-1 specification"
DEFVAL {dtmfcodeA}
::= { pktcSigDevObjects 35 }

pktcSigDevCidDtmfEndCode OBJECT-TYPE
SYNTAX DtmfCode
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object identifies optional end codes used when the
pktcSigDevCidSigProtocol is set to a value of
'dtmf(2)'.

Different countries define different caller id signaling
protocols to support caller
identification. When
Dual-Tone Multi-Frequency (DTMF) is used, the caller id
digits are preceded by a 'start code' digit, followed by
the digit transmission sequence <S1>...<Sn> (where Sx
represents the digits 0-9), and terminated by the 'end
code' digit.

For example,
<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an
end code for the transfer of information values, through
which special events can be indicated to the user. In
some countries, the '*' or '#' may be used instead of
'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA
reboots."
REFERENCE
"ETSI-EN-300-659-1 specification"
DEFVAL {dtmfcodeC}
::= { pktcSigDevObjects 36 }

pktcSigDevVmwiSigProtocol OBJECT-TYPE
SYNTAX PktcSubscriberSideSigProtocol
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object identifies the subscriber line protocol used
for signaling the information on Visual Message Waiting

```
        Indicator (VMWI).  Different countries define different
        VMWI signaling protocols to support VMWI service.



        Frequency shift keying (FSK) is most commonly used.
        DTMF is an alternative.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
     DEFVAL { fsk }
 ::= { pktcSigDevObjects 37 }

 pktcSigDevVmwiDelayAfterLR    OBJECT-TYPE
    SYNTAX       Unsigned32 (0|300..800)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       "This object specifies the delay between the end of the
        Line Reversal and the start of the FSK or DTMF signal.
        This object is only used when pktcSigDevVmwiMode
is
        set to a value of 'lrETS'.
        This timing has a range of 300 to 800 ms.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevVmwiMode), and MUST be followed:

        Value of pktcSigDevVmwiMode       Default value

        duringringingETS                  any value  (not used)
        dtAsETS                           any value  (not used)
        rpAsETS                           any value  (not used)
        lrAsETS                           any value  (not used)
        lrETS                            400

        An attempt to set this object while the value of
        pktcSigDevVmwiMode is not 'lrETS' will result in an
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."

    DEFVAL {400}
      ::= {pktcSigDevObjects 38 }
```

```
 pktcSigDevVmwiDtmfStartCode
OBJECT-TYPE
    SYNTAX      DtmfCode
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
       "This object identifies optional start codes used when



        the pktcSigDevVmwiSigProtocol is set to a value of
        'dtmf(2)'.  Different countries define different On Hook
        Data Transmission Protocol signaling codes to support
        VMWI.

        When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI
        digits are preceded by a 'start code' digit, followed
        by the digit transmission sequence <S1>...<Sn> (where
        Sx represents the digits 0-9), and terminated by the 'end
        code' digit.

        For example,
          <A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

        The start code for redirecting VMWI may be DTMF 'D'
        The DTMF code 'B' may be sent by the network as a start
        code for the transfer of information values, through
         which special events can be indicated to the user.  In
        some countries, the '*' or '#' may be used instead of
        'A', 'B', 'C', or 'D'.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 specification"
    DEFVAL {dtmfcodeA}
::= { pktcSigDevObjects 39 }

 pktcSigDevVmwiDtmfEndCode OBJECT-TYPE
    SYNTAX      DtmfCode
    MAX-ACCESS   read-write
    STATUS      current
    DESCRIPTION
       "This object identifies an optional end code used when the
        pktcSigDevVmwiSigProtocol is set to a value of
        'dtmf(2)'.  Different countries define different on-hook
        Data Transmission Protocol signaling codes to support
        VMWI.
```

```
            When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI
            digits are preceded by a 'start code' digit, followed
            by the digit transmission sequence
    <S1>...<Sn> (where
            Sx represents the digits 0-9), and terminated by the 'end
            code' digit.

            For example,
              <A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.




            The DTMF code 'C' may be sent by the network as an end code
            for the transfer of information values, through which
            special events can be indicated to the user.  In some
            countries, the '*' or '#' may be used instead of 'A',
            'B', 'C', or 'D'.

            The value of this MIB object MUST NOT persist across MTA
            reboots."
        REFERENCE
            "ETSI-EN-300-659-1 specification"
        DEFVAL {dtmfcodeC}
     ::= { pktcSigDevObjects 40 }

    pktcSigDevrpAsDtsDuration     OBJECT-TYPE
        SYNTAX       Unsigned32 (0|200..500)
        UNITS        "Milliseconds"
        MAX-ACCESS   read-write
        STATUS       current
        DESCRIPTION
           " This object specifies the duration of the rpASDTS ring

      pulse prior to the start of the transmission of the
            FSK or DTMF containing the caller id information.  It is
            only used when pktcSigDevCidMode is set to a value of
            'rpAsETS'.

            The following table defines the default values
            for this MIB object, depending on the signal type
           (pktcSigDevCidMode), and MUST be followed:

            Value of pktcSigDevCidMode       Default value

            duringringingETS                 any value  (not used)
            dtAsETS                          any value  (not used)
```

```
          rpAsETS                    250
          lrAsETS                   any value  (not used)
          lrETS                     any value  (not used)

          An attempt to set this object while the value of
          pktcSigDevCidMode is not 'rpAsETS' will result in
          an 'inconsistentValue' error.

         The value of this MIB object MUST NOT persist
 across MTA
         reboots."
     REFERENCE
        "ETSI-EN-300-659-1 Specification and Belgacom
         BGC_D_48_9811_30_09_EDOC version 3.3"
     DEFVAL { 250 }
     ::= {pktcSigDevObjects 41 }




--
-- The Endpoint Config Table is used to define attributes that
-- are specific to connection EndPoints.
--

pktcSigEndPntConfigTable  OBJECT-TYPE
  SYNTAX        SEQUENCE OF PktcSigEndPntConfigEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
      " This table describes the information pertaining to each
        endpoint of the MTA.  All entries in this table represent
        the provisioned endpoints provisioned with the information
        required by the MTA to maintain the NCS protocol
        communication with the CMS.  Each endpoint can be assigned
        to its own CMS.  If the specific endpoint does not have
        the corresponding CMS information in this table, the
        endpoint is considered as not
 provisioned with voice
        services.  Objects in this table do not persist across
        MTA reboots."
 ::=  { pktcSigEndPntConfigObjects 1 }

pktcSigEndPntConfigEntry  OBJECT-TYPE
  SYNTAX        PktcSigEndPntConfigEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
```

```
      "Each entry in the pktcSigEndPntConfigTable represents
       required signaling parameters for the specific endpoint
       provisioned with voice services.  The conceptual rows MUST
       NOT persist across MTA reboots."
    INDEX { ifIndex }
    ::= { pktcSigEndPntConfigTable 1 }

  PktcSigEndPntConfigEntry  ::= SEQUENCE {
    pktcSigEndPntConfigCallAgentId            SnmpAdminString,
    pktcSigEndPntConfigCallAgentUdpPort       InetPortNumber,
    pktcSigEndPntConfigPartialDialTO          Unsigned32,
    pktcSigEndPntConfigCriticalDialTO         Unsigned32,
    pktcSigEndPntConfigBusyToneTO             Unsigned32,
    pktcSigEndPntConfigDialToneTO
      Unsigned32,
    pktcSigEndPntConfigMessageWaitingTO       Unsigned32,
    pktcSigEndPntConfigOffHookWarnToneTO      Unsigned32,
    pktcSigEndPntConfigRingingTO              Unsigned32,
    pktcSigEndPntConfigRingBackTO             Unsigned32,
    pktcSigEndPntConfigReorderToneTO          Unsigned32,
    pktcSigEndPntConfigStutterDialToneTO      Unsigned32,



    pktcSigEndPntConfigTSMax                  Unsigned32,
    pktcSigEndPntConfigMax1                   Unsigned32,
    pktcSigEndPntConfigMax2                   Unsigned32,
    pktcSigEndPntConfigMax1QEnable            TruthValue,
    pktcSigEndPntConfigMax2QEnable            TruthValue,
    pktcSigEndPntConfigMWD                    Unsigned32,
    pktcSigEndPntConfigTdinit                 Unsigned32,
    pktcSigEndPntConfigTdmin                  Unsigned32,
    pktcSigEndPntConfigTdmax                  Unsigned32,
    pktcSigEndPntConfigRtoMax                 Unsigned32,
    pktcSigEndPntConfigRtoInit
          Unsigned32,
    pktcSigEndPntConfigLongDurationKeepAlive  Unsigned32,
    pktcSigEndPntConfigThist                  Unsigned32,
    pktcSigEndPntConfigStatus                 RowStatus,
    pktcSigEndPntConfigCallWaitingMaxRep      Unsigned32,
    pktcSigEndPntConfigCallWaitingDelay       Unsigned32,
    pktcSigEndPntStatusCallIpAddressType      InetAddressType,
    pktcSigEndPntStatusCallIpAddress          InetAddress,
    pktcSigEndPntStatusError                  INTEGER,
    pktcSigEndPntConfigMinHookFlash           Unsigned32,
    pktcSigEndPntConfigMaxHookFlash           Unsigned32,
    pktcSigEndPntConfigPulseDialInterdigitTime Unsigned32,
    pktcSigEndPntConfigPulseDialMinMakeTime   Unsigned32,
```

```
  pktcSigEndPntConfigPulseDialMaxMakeTime    Unsigned32,
  pktcSigEndPntConfigPulseDialMinBreakTime   Unsigned32,
  pktcSigEndPntConfigPulseDialMaxBreakTime   Unsigned32
  }

pktcSigEndPntConfigCallAgentId     OBJECT-TYPE
  SYNTAX      SnmpAdminString(SIZE
(3..255))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains a string indicating the call agent
       name (e.g., ca@example.com).  The call agent name, after
       the character '@', MUST be a fully qualified domain name
       (FQDN) and MUST have a corresponding pktcMtaDevCmsFqdn
       entry in the pktcMtaDevCmsTable.  The object
       pktcMtaDevCmsFqdn is defined in the PacketCable MIBMTA
       Specification.  For each particular endpoint, the MTA MUST
       use the current value of this object to communicate with
       the corresponding CMS.  The MTA MUST update this object
       with the value of the 'Notified Entity' parameter of the
       NCS message.  Because of the high importance of this object
       to the ability of the MTA to maintain reliable NCS
       communication with the CMS, it is highly recommended not
       to change this object's value using SNMP during normal

    operation."



  ::= {  pktcSigEndPntConfigEntry 1 }

pktcSigEndPntConfigCallAgentUdpPort    OBJECT-TYPE
  SYNTAX      InetPortNumber (1025..65535)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the current value of the User
       Datagram Protocol (UDP) receive port on which the
       call agent will receive NCS from the endpoint.
       For each particular endpoint, the MTA MUST use the current
       value of this object to communicate with the corresponding
       CMS.  The MTA MUST update this object with the value of the
       'Notified Entity' parameter of the NCS message.  If the
       Notified Entity parameter does not contain a CallAgent
       port, the MTA MUST update this object with the default
       value of 2727.  Because of the high importance of this
       object to the ability of the MTA to maintain reliable NCS
```

```
        communication with the CMS, it is highly recommended
 not
        to change this object's value using SNMP during normal
        operation."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL    { 2727 }
  ::= { pktcSigEndPntConfigEntry 2 }

pktcSigEndPntConfigPartialDialTO     OBJECT-TYPE
  SYNTAX       Unsigned32
  UNITS        "seconds"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
     "This object contains the value of the partial dial
      time out.
      The time out (TO) elements are intended to limit the time a
      tone or frequency is generated.  When this MIB object is set
      to a value of '0', the MTA MUST NOT generate the
      corresponding frequency or tone, regardless of the
      definitions pertaining to frequency, tone duration, or
      cadence."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 16 }
  ::= { pktcSigEndPntConfigEntry 3 }

pktcSigEndPntConfigCriticalDialTO     OBJECT-TYPE
  SYNTAX       Unsigned32
  UNITS
      "seconds"



  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
     "This object contains the value of the critical
      dial time out.
      The time out (TO) elements are intended to limit the time a
      tone or frequency is generated.  When this MIB object is set
      to a value of '0', the MTA MUST NOT generate the
      corresponding frequency or tone, regardless of the
      definitions pertaining to frequency, tone duration, or
      cadence."
  REFERENCE
     "PacketCable NCS Specification"
```

```
  DEFVAL { 4 }
  ::= { pktcSigEndPntConfigEntry 4 }

pktcSigEndPntConfigBusyToneTO     OBJECT-TYPE
  SYNTAX       Unsigned32
  UNITS        "seconds"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
     " This object contains the default time out value for busy
       tone.  The MTA MUST NOT update this object with the
       value provided in the NCS message (if present).  If
       the
 value of the object is modified by the SNMP Management
       Station, the MTA MUST use the new value as a default only
       for a new signal requested by the NCS message.
       The time out (TO) elements are intended to limit the time
       a tone or frequency is generated.  When this MIB object is
       set to a value of '0', the MTA MUST NOT generate the
       corresponding frequency or tone, regardless of the
       definitions pertaining to frequency, tone duration, or
       cadence."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL    { 30 }
  ::= { pktcSigEndPntConfigEntry 5 }

pktcSigEndPntConfigDialToneTO     OBJECT-TYPE
  SYNTAX       Unsigned32
  UNITS        "seconds"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
     " This object contains the default time out value for dial
       tone.  The MTA MUST NOT update this object with the
       value provided in the NCS message (if present).
  If




       the value of the object is modified by the SNMP Management
       Station, the MTA MUST use the new value as a default only
       for a new signal requested by the NCS message.
       The time out (TO) elements are intended to limit the time
       a tone or frequency is generated.  When this MIB object is
       set to a value of '0', the MTA MUST NOT generate the
       corresponding frequency or tone, regardless of the
       definitions pertaining to frequency, tone duration, or
```

cadence."
REFERENCE
"PacketCable NCS Specification"
DEFVAL { 16 }
::= { pktcSigEndPntConfigEntry 6 }

pktcSigEndPntConfigMessageWaitingTO OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the default time out value for message
waiting indicator. The MTA MUST NOT update this object
with the value
provided in the NCS message (if
present). If the value of the object is modified by the
SNMP Manager application, the MTA MUST use the new value
as a default only for a new signal requested by the NCS
message.
The time out (TO) elements are intended to limit the time
a tone or frequency is generated. When this MIB object is
set to a value of '0', the MTA MUST NOT generate the
corresponding frequency or tone, regardless of the
definitions pertaining to frequency, tone duration, or
cadence."
REFERENCE
"PacketCable NCS Specification"
DEFVAL { 16 }
::= { pktcSigEndPntConfigEntry 7 }

pktcSigEndPntConfigOffHookWarnToneTO OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the default time out value for the
off-hook warning tone. The MTA MUST
NOT update this object
with the value provided in the NCS message (if present). If
the value of the object is modified by the SNMP Manager

application, the MTA MUST use the new value as a default
only for a new signal requested by the NCS message. The
time out (TO) elements are intended to limit the time a tone

```
        or frequency is generated.  When this MIB object is set to a
        value of '0', the MTA MUST NOT generate the corresponding
        frequency or tone, regardless of the definitions pertaining
        to frequency, tone duration, or cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL { 0 }
    ::= { pktcSigEndPntConfigEntry 8 }

pktcSigEndPntConfigRingingTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for
        ringing.  The MTA
 MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 180 }
    ::= { pktcSigEndPntConfigEntry 9 }

pktcSigEndPntConfigRingBackTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for ring

       back.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
```

```
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 180 }
    ::= { pktcSigEndPntConfigEntry 10 }

pktcSigEndPntConfigReorderToneTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time
 out value for reorder
        tone.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 30 }
    ::= { pktcSigEndPntConfigEntry 11 }

pktcSigEndPntConfigStutterDialToneTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object
 contains the default time out value for stutter
        dial tone.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
```

```
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the




        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
        "PacketCable NCS Specification"
    DEFVAL    { 16 }
    ::= { pktcSigEndPntConfigEntry 12 }

pktcSigEndPntConfigTSMax     OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
         "This MIB object
 is used as part of an NCS
          retransmission algorithm.  Prior to any retransmission,
          the MTA must check to make sure that the time elapsed
          since the sending of the initial datagram does not
          exceed the value specified by this MIB object.  If more
          than Tsmax time has elapsed, then the retransmissions
          MUST cease.

          Refer to the MIB object pktcSigEndPntConfigThist for
          information on when the endpoint becomes disconnected."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL { 20 }
    ::= { pktcSigEndPntConfigEntry 13 }

pktcSigEndPntConfigMax1     OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       "This object contains the suspicious error threshold for
        signaling messages.  The pktcSigEndPntConfigMax1 object
        indicates the retransmission threshold at which the MTA MAY
        actively query the domain
 name server (DNS) in order to
        detect the possible change of call agent interfaces."
    REFERENCE
```

```
      "PacketCable NCS Specification"
   DEFVAL { 5 }
   ::= { pktcSigEndPntConfigEntry 14 }

pktcSigEndPntConfigMax2     OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION


      "This object contains the disconnect error threshold for
       signaling messages.  The pktcSigEndPntConfigMax2 object
       indicates the retransmission threshold at which the MTA
       SHOULD contact the DNS one more time to see if any other
       interfaces to the call agent have become available."
   REFERENCE
      "PacketCable NCS Specification"
   DEFVAL { 7 }
   ::= { pktcSigEndPntConfigEntry 15 }

pktcSigEndPntConfigMax1QEnable     OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "This object enables/disables the Max1 domain name server
       (DNS)
 query operation when the pktcSigEndPntConfigMax1
       threshold has been reached.
       A value of true(1) indicates enabling, and a value of
       false(2) indicates disabling."
   DEFVAL { true }
   ::= { pktcSigEndPntConfigEntry 16 }

pktcSigEndPntConfigMax2QEnable     OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "This object enables/disables the Max2 domain name server
       (DNS) query operation when the pktcSigEndPntConfigMax2
       threshold has been reached.
       A value of true(1) indicates enabling, and a value of
       false(2) indicates disabling."
   DEFVAL { true }
   ::= { pktcSigEndPntConfigEntry 17 }
```

```
pktcSigEndPntConfigMWD     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "Maximum Waiting Delay (MWD) contains the maximum number of
      seconds an MTA waits, after powering
 on, before initiating
      the restart procedure with the call agent."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 600 }



  ::= { pktcSigEndPntConfigEntry 18 }

pktcSigEndPntConfigTdinit     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This MIB object represents the 'disconnected' initial
      waiting delay within the context of an MTA's 'disconnected
      procedure'.  The 'disconnected procedure' is initiated when
      an endpoint becomes 'disconnected' while attempting to
      communicate with a call agent.

      The 'disconnected timer' associated with the 'disconnected
      Procedure' is initialized to a random value, uniformly
      distributed between zero and the value contained in this
      MIB object.

      For more information on the usage of this timer, please
      refer to the PacketCable NCS Specification."
   REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 15 }
  ::= { pktcSigEndPntConfigEntry 19 }

pktcSigEndPntConfigTdmin     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
        "This MIB object represents the 'disconnected' minimum
         waiting delay within the context of an MTA's
         'disconnected procedure', specifically when local user
         activity is detected.
         The 'disconnected procedure' is initiated when
         an endpoint becomes 'disconnected' while attempting to
         communicate with a call agent.
         For more information on the usage of this timer, please
         refer to the PacketCable NCS Specification."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 15 }
  ::= { pktcSigEndPntConfigEntry 20 }

pktcSigEndPntConfigTdmax     OBJECT-TYPE
  SYNTAX      Unsigned32



  UNITS
  "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the maximum number of seconds the MTA
       waits, after a disconnect, before initiating the
       disconnected procedure with the call agent.
        "
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 600 }
  ::= { pktcSigEndPntConfigEntry 21 }

pktcSigEndPntConfigRtoMax     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object specifies the maximum number of seconds the MTA
      waits for a response to an NCS message before initiating
      a retransmission."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 4 }
  ::= { pktcSigEndPntConfigEntry 22 }
```

```
pktcSigEndPntConfigRtoInit     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION

    " This object contains the initial number of seconds for the
      retransmission timer."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 200 }
  ::= { pktcSigEndPntConfigEntry 23 }

pktcSigEndPntConfigLongDurationKeepAlive     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "minutes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " Specifies a time out value, in minutes, for sending long
       duration call notification messages."



  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 60 }
  ::= { pktcSigEndPntConfigEntry 24 }

pktcSigEndPntConfigThist  OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " Time out period, in seconds, before no response is declared."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 30 }
  ::= { pktcSigEndPntConfigEntry 25 }

pktcSigEndPntConfigStatus     OBJECT-TYPE
   SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the Row Status associated with the
```

```
        pktcSigEndPntConfigTable.  There are no restrictions or
        dependencies amidst the columnar objects before this
        row can be activated or for modifications of the
        columnar objects when this object is set to a
        value of 'active(1)."
    ::= { pktcSigEndPntConfigEntry 26 }

pktcSigEndPntConfigCallWaitingMaxRep     OBJECT-TYPE
    SYNTAX      Unsigned32 (0..10)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object contains the default value of the maximum
        number of repetitions of the Call Waiting tone that the
        MTA will play from a single CMS request.  The MTA MUST NOT
        update this object with the information provided in the
        NCS message (if present).  If the value of the object is
        modified by the SNMP
   Manager application, the MTA MUST use
        the new value as a default only for a new signal
        requested by the NCS message."
    DEFVAL    { 1 }
    ::= { pktcSigEndPntConfigEntry 27 }

pktcSigEndPntConfigCallWaitingDelay     OBJECT-TYPE
    SYNTAX       Unsigned32 (1..100)



    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the delay between repetitions of the
        Call Waiting tone that the MTA will play from a single CMS
        request."
    DEFVAL    { 10 }
    ::= { pktcSigEndPntConfigEntry 28 }

pktcSigEndPntStatusCallIpAddressType  OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      " This object contains the type of Internet address contained
        in the MIB object 'pktcSigEndPntStatusCallIpAddress'.

        Since pktcSigEndPntStatusCallIpAddress is expected to
```

```
      contain an IP address, a value of dns(16)
 is disallowed."

  ::= { pktcSigEndPntConfigEntry 29 }

pktcSigEndPntStatusCallIpAddress  OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    " This MIB object contains the chosen IP address of the CMS
      currently being used for the corresponding endpoint.

      The device determines the IP address by using DNS to
      resolve the IP address of the CMS from the FQDN stored in
      the MIB object 'pktcSigEndPntConfigCallAgentId'.  The
      processes are outlined in the PacketCable NCS and Security
      specifications, and MUST be followed by the MTA.

      The IP address type contained in this MIB object is
      indicated by pktcSigEndPntStatusCallIpAddressType."
  REFERENCE
     "PacketCable NCS Specification;
      PacketCable Security specification, [PKT-SP-SEC]."
::= { pktcSigEndPntConfigEntry 30 }

pktcSigEndPntStatusError  OBJECT-TYPE
  SYNTAX INTEGER {
           operational
 (1),
           noSecurityAssociation (2),



           disconnected (3)
         }
  MAX-ACCESS   read-only
  STATUS  current
  DESCRIPTION
    " This object contains the error status for this interface.
      The operational status indicates that all operations
      necessary to put the line in service have occurred, and the
      CMS has acknowledged the Restart In Progress (RSIP)
      message successfully.  If pktcMtaDevCmsIpsecCtrl is enabled
      for the associated call agent, the noSecurityAssociation
      status indicates that no Security Association (SA) yet
      exists for this endpoint.  If pktcMtaDevCmsIpsecCtrl is
      disabled for the associated call agent, the
```

noSecurityAssociation status is not applicable and should
not be used by the MTA. The disconnected status indicates
one of the following two:
If pktcMtaDevCmsIpsecCtrl is disabled, then no security
association
is involved with this endpoint. The NCS
signaling software is in process of establishing the NCS
signaling link via an RSIP exchange.
Otherwise, when pktcMtaDevCmsIpsecCtrl is enabled,
security Association has been established, and the NCS
signaling software is in process of establishing the NCS
signaling link via an RSIP exchange."
::= { pktcSigEndPntConfigEntry 31 }

pktcSigEndPntConfigMinHookFlash OBJECT-TYPE
SYNTAX Unsigned32 (20..1550)
UNITS "Milliseconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is the minimum time a line needs to be on-hook for a
valid hook flash. The value of this object MUST be
greater than the value of
pktcSigEndPntConfigPulseDialMaxBreakTime. The value of
pktcSigEndPntConfigMinHookFlash MUST be less than
pktcSigEndPntConfigMaxHookFlash. This object MUST only be
set via the
MTA configuration during the provisioning
process.
Furthermore, given the possibility for the 'pulse dial'
and 'hook flash' to overlap, the value of this object
MUST be greater than the value contained by the MIB
Object 'pktcSigEndPntConfigPulseDialMaxMakeTime'."
DEFVAL { 300 }
::= { pktcSigEndPntConfigEntry 32 }

pktcSigEndPntConfigMaxHookFlash OBJECT-TYPE
SYNTAX Unsigned32 (20..1550)
UNITS "Milliseconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is the maximum time a line needs to be on-hook for a
valid hook flash. The value of
pktcSigEndPntConfigMaxHookFlash MUST be greater than

pktcSigEndPntConfigMinHookFlash. This object MUST only be set via the MTA configuration during the provisioning process."
DEFVAL { 800 }
::= { pktcSigEndPntConfigEntry 33 }

pktcSigEndPntConfigPulseDialInterdigitTime
OBJECT-TYPE
SYNTAX Unsigned32 (100..1500)
UNITS "Milliseconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is the pulse dial inter-digit time out. This object MUST only be set via the MTA configuration during the provisioning process."
DEFVAL { 100 }
::= { pktcSigEndPntConfigEntry 34 }

pktcSigEndPntConfigPulseDialMinMakeTime OBJECT-TYPE
SYNTAX Unsigned32 (20..200)
UNITS "Milliseconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is the minimum make pulse width for the dial pulse. The value of pktcSigEndPntConfigPulseDialMinMakeTime MUST be less than pktcSigEndPntConfigPulseDialMaxMakeTime. This object MUST only be set via the MTA configuration during the provisioning process."
DEFVAL { 25 }
::= { pktcSigEndPntConfigEntry 35 }

pktcSigEndPntConfigPulseDialMaxMakeTime OBJECT-TYPE
SYNTAX Unsigned32 (20..200)
UNITS "Milliseconds"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This is the maximum make pulse width for the dial pulse.

The value of pktcSigEndPntConfigPulseDialMaxMakeTime MUST be greater than pktcSigEndPntConfigPulseDialMinMakeTime. This object MUST only be provided via the configuration file during the provisioning process.
Furthermore, given the possibility for the 'pulse dial'

```
        and 'hook flash' to overlap, the value of this object MUST
        be less than the value contained by the MIB object
        pktcSigEndPntConfigMinHookFlash."
    DEFVAL { 55 }
    ::= { pktcSigEndPntConfigEntry 36 }

pktcSigEndPntConfigPulseDialMinBreakTime    OBJECT-TYPE
    SYNTAX      Unsigned32 (20..200)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This is the minimum break pulse width
 for the dial pulse.
        The value of pktcSigEndPntConfigPulseDialMinBreakTime MUST
        be less than pktcSigEndPntConfigPulseDialMaxBreakTime.
        This object must only be provided via the configuration
        file during the provisioning process."
    DEFVAL { 45 }
    ::= { pktcSigEndPntConfigEntry 37 }

pktcSigEndPntConfigPulseDialMaxBreakTime    OBJECT-TYPE
    SYNTAX      Unsigned32 (20..200)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This is the maximum break pulse width for the dial pulse.
        The value of pktcSigEndPntConfigPulseDialMaxBreakTime MUST
        be greater than pktcSigEndPntConfigPulseDialMinBreakTime.
        This object MUST only be provided via the configuration
        file during the provisioning process."
    DEFVAL { 75 }
    ::= { pktcSigEndPntConfigEntry 38 }

--
-- notification group is for future extension.
--
pktcSigNotification  OBJECT IDENTIFIER ::= {
 pktcIetfSigMib 0 }
pktcSigConformance   OBJECT IDENTIFIER ::= { pktcIetfSigMib 2 }
pktcSigCompliances   OBJECT IDENTIFIER ::= { pktcSigConformance 1 }
pktcSigGroups        OBJECT IDENTIFIER ::= { pktcSigConformance 2 }

--
```

```
-- compliance statements
--

pktcSigBasicCompliance  MODULE-COMPLIANCE
  STATUS     current
  DESCRIPTION
      " The compliance statement for MTAs that implement
        NCS signaling."

MODULE  -- pktcIetfSigMib

---
-- Unconditionally mandatory groups for all MTAs
---

MANDATORY-GROUPS {
  pktcSigDeviceGroup,
  pktcSigEndpointGroup
}
---
-- Conditionally mandatory groups for MTAs
---

GROUP pktcInternationalGroup
  DESCRIPTION
      " This group is mandatory only for MTAs implementing
        international telephony features."

GROUP pktcLLinePackageGroup
  DESCRIPTION
      " This group is mandatory only for MTAs implementing the L
        line package."

GROUP pktcELinePackageGroup
  DESCRIPTION
      " This group is mandatory only
 for MTAs implementing the E
        Line Package."
  ::={ pktcSigCompliances 1 }

pktcSigDeviceGroup  OBJECT-GROUP
  OBJECTS {
  pktcSigDevCodecMax,
  pktcSigDevEchoCancellation,
  pktcSigDevSilenceSuppression,
  pktcSigDevR0Cadence,
  pktcSigDevR1Cadence,
  pktcSigDevR2Cadence,
```

```
    pktcSigDevR3Cadence,



    pktcSigDevR4Cadence,
    pktcSigDevR5Cadence,
    pktcSigDevR6Cadence,
    pktcSigDevR7Cadence,
    pktcSigDevRgCadence,
    pktcSigDevRsCadence,
    pktcSigDefCallSigDscp,
    pktcSigDefMediaStreamDscp,
    pktcSigDevVmwiMode,
    pktcSigCapabilityType,
    pktcSigCapabilityVersion,
    pktcSigCapabilityVendorExt,
    pktcSigDefNcsReceiveUdpPort
    }
    STATUS current
    DESCRIPTION
        "Group of MIB objects containing signaling configuration
         information that is applicable per-device."
    ::= { pktcSigGroups 1 }

  pktcSigEndpointGroup  OBJECT-GROUP
    OBJECTS {
    pktcSigEndPntConfigCallAgentId,
    pktcSigEndPntConfigCallAgentUdpPort,

    pktcSigEndPntConfigPartialDialTO,
    pktcSigEndPntConfigCriticalDialTO,
    pktcSigEndPntConfigBusyToneTO,
    pktcSigEndPntConfigDialToneTO,
    pktcSigEndPntConfigMessageWaitingTO,
    pktcSigEndPntConfigOffHookWarnToneTO,
    pktcSigEndPntConfigRingingTO,
    pktcSigEndPntConfigRingBackTO,
    pktcSigEndPntConfigReorderToneTO,
    pktcSigEndPntConfigStutterDialToneTO,
    pktcSigEndPntConfigTSMax,
    pktcSigEndPntConfigMax1,
    pktcSigEndPntConfigMax2,
    pktcSigEndPntConfigMax1QEnable,
    pktcSigEndPntConfigMax2QEnable,
    pktcSigEndPntConfigMWD,
    pktcSigEndPntConfigTdinit,
    pktcSigEndPntConfigTdmin,
    pktcSigEndPntConfigTdmax,
```

```
    pktcSigEndPntConfigRtoMax,
    pktcSigEndPntConfigRtoInit,
    pktcSigEndPntConfigLongDurationKeepAlive,
    pktcSigEndPntConfigThist,
    pktcSigEndPntConfigStatus,



    pktcSigEndPntConfigCallWaitingMaxRep,
    pktcSigEndPntConfigCallWaitingDelay,
    pktcSigEndPntStatusCallIpAddressType,
    pktcSigEndPntStatusCallIpAddress,
    pktcSigEndPntStatusError
     }
    STATUS current
    DESCRIPTION
        "Group of MIB objects containing signaling configuration
         information that is applicable per-endpoint."
    ::= { pktcSigGroups 2 }

  pktcInternationalGroup    OBJECT-GROUP
    OBJECTS {
    pktcSigEndPntConfigMinHookFlash,
    pktcSigEndPntConfigMaxHookFlash,
    pktcSigEndPntConfigPulseDialInterdigitTime,
    pktcSigEndPntConfigPulseDialMinMakeTime,
    pktcSigEndPntConfigPulseDialMaxMakeTime,
    pktcSigEndPntConfigPulseDialMinBreakTime,
    pktcSigEndPntConfigPulseDialMaxBreakTime,
    pktcSigDevRingCadence,
    pktcSigDevCidSigProtocol,
    pktcSigDevCidDelayAfterLR,
    pktcSigDevCidDtmfStartCode,
    pktcSigDevCidDtmfEndCode,
    pktcSigDevVmwiSigProtocol,
    pktcSigDevVmwiDelayAfterLR,
    pktcSigDevVmwiDtmfStartCode,
    pktcSigDevVmwiDtmfEndCode,
    pktcSigDevrpAsDtsDuration,
    pktcSigDevCidMode,
    pktcSigDevCidAfterRing,
    pktcSigDevCidAfterDTAS,
    pktcSigDevCidAfterRPAS,
    pktcSigDevRingAfterCID,
     pktcSigDevCidDTASAfterLR,
    pktcSigDevVmwiMode,
    pktcSigDevVmwiAfterDTAS,
    pktcSigDevVmwiAfterRPAS,
```

```
    pktcSigDevVmwiDTASAfterLR,
    pktcSigPowerRingFrequency,
    pktcSigPulseSignalFrequency,
    pktcSigPulseSignalDbLevel,
    pktcSigPulseSignalDuration,
    pktcSigPulseSignalPulseInterval,
    pktcSigPulseSignalRepeatCount,
    pktcSigDevToneDbLevel,



    pktcSigDevToneFreqCounter,
    pktcSigDevToneWholeToneRepeatCount,
    pktcSigDevToneSteady,
    pktcSigDevToneFirstFreqValue,
    pktcSigDevToneSecondFreqValue,
    pktcSigDevToneThirdFreqValue,
    pktcSigDevToneFourthFreqValue,
    pktcSigDevToneFreqMode,
    pktcSigDevToneFreqAmpModePrtg,
    pktcSigDevToneFreqOnDuration,
    pktcSigDevToneFreqOffDuration,
    pktcSigDevToneFreqRepeatCount
    }
    STATUS current
    DESCRIPTION
        " Group of objects that extend the behavior of existing
        objects to support operations in the widest possible set
        of international marketplaces.
    Note that many of these
        objects represent a superset of behaviors described in
        other objects within this MIB module."
    ::= { pktcSigGroups 3 }

pktcLLinePackageGroup  OBJECT-GROUP
    OBJECTS {
    pktcSigDevR0Cadence,
    pktcSigDevR1Cadence,
    pktcSigDevR2Cadence,
    pktcSigDevR3Cadence,
    pktcSigDevR4Cadence,
    pktcSigDevR5Cadence,
    pktcSigDevR6Cadence,
    pktcSigDevR7Cadence,
    pktcSigDevRgCadence,
    pktcSigDevRsCadence
    }
    STATUS current
```

```
  DESCRIPTION
  "Group of Objects to support the L line package."
  ::= { pktcSigGroups 4 }

pktcELinePackageGroup  OBJECT-GROUP
  OBJECTS {
  pktcSigDevR0Cadence,
  pktcSigDevR1Cadence,
  pktcSigDevR2Cadence,
  pktcSigDevR3Cadence,
  pktcSigDevR4Cadence,
  pktcSigDevR5Cadence,



  pktcSigDevR6Cadence,
  pktcSigDevR7Cadence,
  pktcSigDevRgCadence,
  pktcSigDevRsCadence,
  pktcSigPulseSignalFrequency,
  pktcSigPulseSignalDbLevel,
  pktcSigPulseSignalDuration,
  pktcSigPulseSignalPulseInterval,
   pktcSigPulseSignalRepeatCount,
  pktcSigDevRingCadence
  }
  STATUS current
  DESCRIPTION
     "Group of Objects to support the E line package."
  ::= { pktcSigGroups 5 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-SIG-MIB

1.175 json 20090211

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1.176 yang-parser-api 0.8.4-Beryllium-SR4

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commons//httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/util/HttpURLConnection.java,v 1.15 2004/04/18
23:51:38 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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commons//httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthenticator.java,v 1.19 2004/10/06
17:32:04 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58
olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/InvalidCredentialsException.java,v 1.4 2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/HeadMethod.java,v 1.29 2004/06/13
20:22:19 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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commons//httpclient/src/java/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java,v 1.6
2004/04/18 23:51:38 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
```

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java
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```
/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/java/org/apache/commons/httpclient/util/LangUtils.java $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/LangUtils.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7 2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpConnection.java,v 1.107 2005/01/14 21:30:59 olegk Exp $
* $Revision: 327792 $
* $Date: 2005-10-23 09:34:28 -0400 (Sun, 23 Oct 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpConnection.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $

* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpecBase.java,v 1.28 2004/11/06 19:15:42 mbecke Exp $
* $Revision: 190485 $
* $Date: 2005-06-13 15:04:56 -0400 (Mon, 13 Jun 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/cookie/CookieSpecBase.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/Part.java,v 1.16 2005/01/14 21:16:40 olegk Exp $
* $Revision: 332125 $
* $Date: 2005-11-09 14:41:40 -0500 (Wed, 09 Nov 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpRecoverableException.java,v 1.15 2004/07/05 22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java,v 1.1 2004/07/05 22:46:58 olegk Exp $
* $Revision: 155418 $

* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthState.java,v 1.3 2004/11/02 19:39:16 olegk Exp $
* $Revision: 290260 $
* $Date: 2005-09-19 16:37:48 -0400 (Mon, 19 Sep 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HeaderElement.java,v 1.23 2004/05/13 04:03:25 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/DateParseException.java,v 1.5 2004/11/06 19:15:42 mbecke Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/NTCredentials.java,v 1.10 2004/04/18 23:51:35 jsdever Exp $
* $Revision: 326707 $

* $Date: 2005-10-19 16:51:46 -0400 (Wed, 19 Oct 2005) $
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* $Revision: 155418 $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeParser.java,v 1.10 2004/05/13 04:02:00 mbecke Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartSource.java,v 1.6 2004/04/18 23:51:37 jsdever Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/CircularRedirectException.java,v 1.1 2005/01/14 19:40:39 olegk Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke
Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpConnectionManager.java,v 1.24 2004/07/05 22:46:58 olegk Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/DigestScheme.java,v 1.22 2004/12/30 11:01:27 oglueck Exp $
* $Revision: 368699 $
* $Date: 2006-01-13 07:24:45 -0500 (Fri, 13 Jan 2006) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18 23:51:35 jsdever Exp $
* $Revision: 326707 $
* $Date: 2005-10-19 16:51:46 -0400 (Wed, 19 Oct 2005) $
*

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/UsernamePasswordCredentials.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/auth/BasicScheme.java,v 1.17 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/BasicScheme.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ConnectMethod.java,v 1.29 2004/06/24 21:39:52 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ConnectMethod.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05
22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/NoHttpResponseException.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46
olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
```

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/ExceptionUtil.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2
2004/04/18 23:51:38 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever
Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Credentials.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18 23:51:36 jsdever Exp $
* $Revision: 290260 $
* $Date: 2005-09-19 16:37:48 -0400 (Mon, 19 Sep 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck Exp $
* $Revision: 358634 $
* $Date: 2005-12-22 16:23:15 -0500 (Thu, 22 Dec 2005) $

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java,v 1.39
2004/07/03 14:27:03 olegk Exp $
* $Revision: 161963 $
* $Date: 2005-04-19 16:25:06 -0400 (Tue, 19 Apr 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/RequestEntity.java,v 1.4 2004/05/17
21:46:03 olegk Exp $
* $Revision: 161963 $
* $Date: 2005-04-19 16:25:06 -0400 (Tue, 19 Apr 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/WireLogOutputStream.java,v 1.7 2004/06/24 21:39:52
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/NameValuePair.java,v 1.17 2004/04/18 23:51:35
jsdever Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpec.java,v 1.11 2004/09/14 20:11:31
olegk Exp $
* $Revision: 356822 $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ContentLengthInputStream.java,v 1.12 2004/10/04 22:05:44 olegk Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp
$
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/cookie/MalformedCookieException.java,v 1.8
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/RedirectException.java,v 1.2 2004/04/18 23:51:35 jsdever Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 2004/07/05 22:46:58 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ConnectTimeoutException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55 olegk Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ChunkedInputStream.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/Header.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/StringRequestEntity.java,v 1.3 2004/07/03 14:27:03 olegk Exp $
* $Revision: 356822 $
* $Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/StringRequestEntity.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47
2004/12/21 11:27:55 olegk Exp $
* $Revision: 366716 $
* $Date: 2006-01-07 08:04:58 -0500 (Sat, 07 Jan 2006) $
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* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9
2004/09/13 16:25:20 olegk Exp $
* $Revision: 354155 $
```

* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/URI.java,v 1.47 2004/05/13 04:03:25 mbecke Exp $
* $Revision: 372560 $
* $Date: 2006-01-26 11:07:06 -0500 (Thu, 26 Jan 2006) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/URI.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpMethod.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java,v 1.1 2004/10/06 03:39:59 mbecke Exp $
* $Revision: 327791 $
* $Date: 2005-10-23 09:27:39 -0400 (Sun, 23 Oct 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthenticationException.java,v 1.6 2004/05/13 04:02:00 mbecke Exp $

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthenticationException.java
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartBase.java,v 1.5 2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpClientError.java,v 1.4 2004/05/13 04:03:25 mbecke Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpParser.java,v 1.13 2005/01/11 13:57:06 oglueck Exp $
* $Revision: 179411 $
* $Date: 2005-06-01 16:04:58 -0400 (Wed, 01 Jun 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/URIException.java,v 1.12 2004/09/30 18:53:20 olegk Exp $

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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePartSource.java,v 1.10 2004/04/18 23:51:37 jsdever Exp $
* $Revision: 155418 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ChunkedOutputStream.java,v 1.16 2004/05/13 04:03:25 mbecke Exp $
* $Revision: 220180 $
* $Date: 2005-07-21 16:29:45 -0400 (Thu, 21 Jul 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/EncodingUtil.java,v 1.8 2004/05/13 04:01:22 mbecke Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/ExpectContinueMethod.java,v 1.13 2004/05/08 10:12:08 olegk Exp $

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/*
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* $Revision: 155418 $
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* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/java/org/apache/commons/httpclient/util/ParameterFormatter.java $
* $Revision: 178662 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/ParameterFormatter.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ProxyHost.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/NTLM.java,v 1.11 2004/05/13 04:02:00 mbecke Exp $

```
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*/
/**
* Provides an implementation of the NTLM authentication protocol.
* <p>
* This class provides methods for generating authentication
* challenge responses for the NTLM authentication protocol.  The NTLM
* protocol is a proprietary Microsoft protocol and as such no RFC
* exists for it.  This class is based upon the reverse engineering
* efforts of a wide range of people.</p>
*
* <p>Please note that an implementation of JCE must be correctly installed and configured when
* using NTLM support.</p>
*
* <p>This class should not be used externally to HttpClient as it's API is specifically
* designed to work with HttpClient's use
 case, in particular it's connection management.</p>
*
* @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>
* @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @version $Revision: 155418 $ $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
```

* @since 3.0
*/

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/NTLM.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java,v 1.2 2004/05/13 02:40:36 mbecke Exp $
* $Revision: 354829 $
* $Date: 2005-12-07 14:05:13 -0500 (Wed, 07 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/TimeoutController.java,v 1.6 2004/04/18 23:51:38 jsdever Exp $
* $Revision: 291181 $

* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/TimeoutController.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34 jsdever Exp $
* $Revision: 291181 $
* $Date: 2005-09-23 14:13:25 -0400 (Fri, 23 Sep 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/HttpState.java,v 1.38 2004/12/20 11:50:54 olegk Exp
$
* $Revision: 377704 $
* $Date: 2006-02-14 06:48:29 -0500 (Tue, 14 Feb 2006) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpState.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22 mbecke Exp $
* $Revision: 345737 $
* $Date: 2005-11-20 07:30:47 -0500 (Sun, 20 Nov 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/ParameterParser.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsProvider.java,v 1.6 2004/07/05 22:46:59 olegk Exp $
* $Revision: 357669 $

* $Date: 2005-12-19 04:19:10 -0500 (Mon, 19 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/CredentialsProvider.java
No license file was found, but licenses were detected in source scan.

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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpMethodBase.java,v 1.222 2005/01/14 21:16:40 olegk Exp $
* $Revision: 345322 $
* $Date: 2005-11-17 15:20:08 -0500 (Thu, 17 Nov 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionHandler.java,v 1.2 2004/05/13 02:40:36 mbecke Exp $
* $Revision: 155418 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/IdleConnectionHandler.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp $
* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpHost.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31
olegk Exp $
* $Revision: 356822 $
* $Date: 2005-12-14 13:08:35 -0500 (Wed, 14 Dec 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ResponseConsumedWatcher.java,v 1.5 2004/04/18 23:51:35 jsdever Exp $
* $Revision: 155418 $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/params/HttpParamsFactory.java,v 1.5 2004/05/13
04:01:22 mbecke Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/HttpStatus.java,v 1.18 2004/05/02 11:21:13 olegk Exp
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* $Revision: 155418 $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/params/HostParams.java,v 1.5 2004/10/06 17:32:04
olegk Exp $
* $Revision: 224451 $
* $Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpMethodRetryHandler.java,v 1.2 2004/09/14 20:11:31 olegk Exp $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpMethodRetryHandler.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15 20:32:21 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpConnectionParams.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java,v 1.4
2004/12/21 23:15:21 olegk Exp $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18 23:51:37 jsdever Exp $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/OptionsMethod.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ProtocolException.java,v 1.4 2004/05/13 04:03:25 mbecke Exp $
* $Revision: 155418 $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ProtocolException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/InputStreamRequestEntity.java,v 1.4 2004/05/17 21:46:03 olegk Exp $
* $Revision: 224452 $
* $Date: 2005-07-23 06:33:39 -0400 (Sat, 23 Jul 2005) $

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 155418 $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HostConfiguration.java,v 1.23 2005/01/14 21:16:40 olegk Exp $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java,v 1.11 2004/05/13 04:02:00 mbecke Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePart.java,v 1.19 2004/04/18 23:51:37 jsdever Exp $

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java,v 1.6 2004/09/14 20:11:31 olegk Exp $
* $Revision: 179050 $
* $Date: 2005-05-30 08:22:06 -0400 (Mon, 30 May 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpConstants.java,v 1.15 2004/04/18 23:51:35 jsdever Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/DefaultMethodRetryHandler.java,v 1.4 2004/07/05 22:46:58 olegk Exp $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/cookie/RFC2109Spec.java,v 1.21 2004/06/05 16:49:20 olegk Exp $

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/Wire.java,v 1.9 2004/06/24 21:39:52 mbecke Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/util/DateParser.java,v 1.11 2004/11/06 19:15:42 mbecke Exp $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37
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Found in path(s):
* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/PutMethod.java
No license file was found, but licenses were detected in source scan.

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java,v 1.3
2004/12/20 11:47:46 olegk Exp $
* $Revision: 280621 $
```

* $Date: 2005-09-13 14:41:21 -0400 (Tue, 13 Sep 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpVersion.java,v 1.6 2004/12/20 19:52:50 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpVersion.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/DeleteMethod.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13 04:01:22 mbecke Exp $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpClientParams.java
No license file was found, but licenses were detected in source scan.

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/params/HttpParams.java,v 1.6 2004/05/13 04:01:22 mbecke Exp $
* $Revision: 155418 $

* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpParams.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeException.java,v 1.2 2004/04/18 23:51:36 jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthChallengeException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10 2004/05/13 04:01:22 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java,v 1.4 2004/05/13 04:02:00 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38 jsdever Exp $

* $Revision: 157457 $
* $Date: 2005-03-14 15:23:16 -0500 (Mon, 14 Mar 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/protocol/Protocol.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00 mbecke Exp $
* $Revision: 156690 $
* $Date: 2005-03-09 16:40:30 -0500 (Wed, 09 Mar 2005) $
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*/
/** An implementation of the Microsoft proprietary NTLM authentication scheme. For a detailed
* explanation of the NTLM scheme please see
* http://davenport.sourceforge.net/ntlm.html.
*
* @author Remy Maucherat
* @author Rodney Waldhoff
* @author Jeff Dever
* @author Ortwin Gl???ck
* @author Sean C. Sullivan
* @author Adrian Sutton
* @author Mike Bowler
* @author Oleg Kalnichevski
 */

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/NTLMScheme.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16 2004/11/20 21:48:47 mbecke Exp $
* $Revision: 404762 $
* $Date: 2006-05-07 10:07:41 -0400 (Sun, 07 May 2006) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk
Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthPolicy.java,v 1.6 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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*/
/**
* Authentication policy class. The Authentication policy provides corresponding
* authentication scheme interfrace for a given type of authorization challenge.
* <p>The following specifications are provided:
*  <ul>
*   <li><tt>Basic</tt>: Basic authentication scheme as defined in RFC2617
*          (considered inherently insecure, but most widely supported)
*   <li><tt>Digest</tt>: Digest authentication scheme as defined in RFC2617
```

```
*   <li><tt>NTLM</tt>: The NTLM scheme is a proprietary Microsoft Windows
*         Authentication protocol (considered to be the most secure among
*         currently supported authentication
 schemes)
*  </ul>
*
* @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>
*
* @version $Revision: 155418 $
* @since 3.0
*/
/**
    * The NTLM scheme is a proprietary Microsoft Windows Authentication
    * protocol (considered to be the most secure among currently supported
    * authentication schemes).
    */
```

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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthPolicy.java
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36
jsdever Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/ProxyClient.java,v 1.5 2004/12/20 11:39:04 olegk Exp $
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk

Exp $
* $Revision: 354155 $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpMethodDirector.java,v 1.34 2005/01/14 19:40:39 olegk Exp $
* $Revision: 366870 $
* $Date: 2006-01-07 13:12:55 -0500 (Sat, 07 Jan 2006) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/WireLogInputStream.java,v 1.15 2004/06/24 21:39:52
mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/WireLogInputStream.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParams.java,v 1.9 2004/12/21 23:15:21 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/HttpsURL.java,v 1.11 2004/09/30 17:26:41 oglueck

Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
$
* $Revision: 354155 $
* $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons//httpclient/src/java/org/apache/commons/httpclient/methods/PostMethod.java,v 1.58 2004/08/08 12:50:09
olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/PostMethod.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3 2004/05/13 02:26:08 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java
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/*

* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23 2004/10/16 22:40:08 mbecke Exp $
* $Revision: 329914 $
* $Date: 2005-10-31 16:24:47 -0500 (Mon, 31 Oct 2005) $
*
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/SimpleHttpConnectionManager.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06 03:39:59 mbecke Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/MultipartPostMethod.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons//httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23 olegk Exp $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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* /commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java

1.178 scala-library 2.10.4

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/**
*
* A `ClassTag[T]` stores the erased class of a given type `T`, accessible via the `runtimeClass`
* field. This is particularly useful for instantiating `Array`s whose element types are unknown
* at compile time.
*
* `ClassTag`s are a weaker special case of [[scala.reflect.api.TypeTags#TypeTag]]s, in that they
* wrap only the runtime class of a given type, whereas a `TypeTag` contains all static type
* information. That is, `ClassTag`s are constructed from knowing only the top-level class of a
* type, without necessarily knowing all of its argument types. This runtime information is enough
* for runtime `Array` creation.
*
* For example:
* {{{
*   scala> def mkArray[T : ClassTag](elems: T*) = Array[T](elems: _*)
*   mkArray: [T](elems: T*)(implicit evidence$1: scala.reflect.ClassTag[T])Array[T]
*
*   scala> mkArray(42, 13)
*   res0: Array[Int] = Array(42, 13)
*
*   scala> mkArray("Japan","Brazil","Germany")
 *   res1: Array[String] = Array(Japan, Brazil, Germany)
* }}}
*
* See [[scala.reflect.api.TypeTags]] for more examples, or the
* [[http://docs.scala-lang.org/overviews/reflection/typetags-manifests.html Reflection Guide: TypeTags]]
* for more details.
*
*/

Found in path(s):
* /scala-library-2-10-4-sources-3-jar/scala/reflect/ClassTag.scala

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```
/**
  * Latch used to implement waiting on a DefaultPromise's result.
  *
  * Inspired by: http://gee.cs.oswego.edu/cgi-
bin/viewcvs.cgi/jsr166/src/main/java/util/concurrent/locks/AbstractQueuedSynchronizer.java
  * Written by Dog Lea with assistance from members of JCP JSR-166
  * Expert Group and released to the public domain, as explained at
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  */
```

Found in path(s):
* /scala-library-2-10-4-sources-3-jar/scala/concurrent/impl/Promise.scala
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```
/** This singleton object contains the `apply` and `unapplySeq` methods for
*  convenient construction and deconstruction. It is possible to deconstruct
*  any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
*  syntax `case Elem(prefix, label, attribs, scope, child @ _*) => ...`
*
*  Copyright 2008 Google Inc. All Rights Reserved.
*  @author Burak Emir <bqe@google.com>
*/
```

Found in path(s):
* /scala-library-2-10-4-sources-3-jar/scala/xml/Elem.scala
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```
/**
* Copyright 2008 Google Inc. All Rights Reserved.
* @author Burak Emir <bqe@google.com>
*/
/** This class represents an attribute and at the same time a linked list of
*  attributes. Every instance of this class is either
*  - an instance of `UnprefixedAttribute key,value` or
*  - an instance of `PrefixedAttribute namespace_prefix,key,value` or
*  - `Null, the empty attribute list.
*
*  Namespace URIs are obtained by using the namespace scope of the element
*  owning this attribute (see `getNamespace`).
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Found in path(s):
* /scala-library-2-10-4-sources-3-jar/scala/xml/MetaData.scala

1.179 concepts 0.8.4-Beryllium-SR4

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1.180 spring-security-web 3.2.4.RELEASE

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* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/bind/support/AuthenticationPrincipalArgumentResolver.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfException.java
*
 /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/HttpSessionCsrfTokenRepository.java
* /spring-security-web-3-2-4-release-sources-3-

jar/org/springframework/security/web/session/InvalidSessionAccessDeniedHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/AbstractSessionFixationProtectionStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/SessionFixationProtectionEvent.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/AbstractSecurityWebApplicationInitializer.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfTokenRepository.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/header/HeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/InvalidCsrfTokenException.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/AnyRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/CacheControlHeadersWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/DelegatingRequestMatcherHeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfLogoutHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/frameoptions/XFrameOptionsHeaderWriter.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servlet/support/csrf/CsrfRequestDataValueProcessor.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/csrf/CsrfAuthenticationStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/bind/annotation/AuthenticationPrincipal.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/ChangeSessionIdAuthenticationStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/HstsHeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/session/SessionFixationProtectionStrategy.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/MediaTypeRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfFilter.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/csrf/CsrfToken.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XXssProtectionHeaderWriter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/header/writers/XContentTypeOptionsHeaderWriter.java
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* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolverImpl.java
*
 /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/NonceExpiredException.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/WebAuthenticationDetailsSource.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/AbstractAuthenticationProcessingFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/Enumerator.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapperImpl.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/WebAuthenticationDetails.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/ExceptionTranslationFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/FilterChainProxy.java
*
 /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/UrlUtils.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelDecisionManagerImpl.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/FastHttpDateFormat.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/SavedRequestAwareWrapper.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/FilterInvocationSecurityMetadataSource.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/switchuser/AuthenticationSwitchUserEvent.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/savedrequest/DefaultSavedRequest.java

* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/DefaultWebInvocationPrivilegeEvaluator.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/FilterSecurityInterceptor.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortMapper.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/ChannelEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionCreatedEvent.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/NullRememberMeServices.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/AccessDeniedHandler.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/BasicAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/switchuser/SwitchUserGrantedAuthority.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/ConcurrentSessionFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/PortResolver.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/www/BasicAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/intercept/DefaultFilterInvocationSecurityMetadataSource.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/AccessDeniedHandlerImpl.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/SecureChannelProcessor.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/RememberMeServices.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionDestroyedEvent.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/InsecureChannelProcessor.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/session/HttpSessionEventPublisher.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/AuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/RetryWithHttpsEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/AnonymousAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/access/channel/RetryWithHttpEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-

jar/org/springframework/security/web/servletapi/SecurityContextHolderAwareRequestWrapper.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/LoginUrlAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/www/DigestAuthenticationEntryPoint.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/WebInvocationPrivilegeEvaluator.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/UsernamePasswordAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/switchuser/SwitchUserFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/rememberme/RememberMeAuthenticationFilter.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/LogoutHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelProcessor.java
*
/spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/access/channel/ChannelDecisionManager.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/SecurityContextLogoutHandler.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/authentication/logout/LogoutFilter.java
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jar/org/springframework/security/web/util/matcher/NegatedRequestMatcher.java

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jar/org/springframework/security/web/util/AntPathRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java
*
 /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/SaveContextOnUpdateOrErrorResponseWrapper.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/AntPathRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/util/matcher/RegexRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServlet25RequestFactory.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/servletapi/HttpServlet3RequestFactory.java
* /spring-security-web-3-2-4-release-sources-3-
jar/org/springframework/security/web/context/request/async/WebAsyncManagerIntegrationFilter.java
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* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/ELRequestMatcher.java
*
/spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java
* /spring-security-web-3-2-4-release-sources-3-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java

1.181 object-cache-api 0.8.4-Beryllium-SR4

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```
/**
   *
   * @param authentication represents the user in question. Should not be null.
   * @param targetDomainObject the domain object for which permissions should be checked. May be null
   *         in which case implementations should return false, as the null condition can be checked explicitly
   *         in the expression.
   * @param permission a representation of the permission object as supplied by the expression system. Not null.
   * @return true if the permission is granted, false otherwise
   */
```

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java
*
 /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
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* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AccessDeniedException.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/PasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/RunAsUserToken.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/session/SessionRegistry.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/User.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UserDetails.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/SecurityMetadataSource.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
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jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
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jar/org/springframework/security/access/vote/AuthenticatedVoter.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/annotation/Secured.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java
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jar/org/springframework/security/core/userdetails/memory/UserMapEditor.java
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jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/ProviderNotFoundException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java

* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDecisionManager.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java
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*
/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/LockedException.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/TestingAuthenticationToken.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/dao/SaltSource.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/session/SessionInformation.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/annotation/Jsr250MethodSecurityMetadataSource.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/AuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/LdapShaPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AffirmativeBased.java
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/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/GrantedAuthority.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/RunAsManager.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/UnanimousBased.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java
*
/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/InMemoryResource.java
* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/access/event/AuthorizationFailureEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationTrustResolver.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/cache/NullUserCache.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/InterceptorStatusToken.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AuthorizationServiceException.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/FieldUtils.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/SecurityConfig.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/ConsensusBased.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/session/SessionRegistryImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/memory/InMemoryDaoImpl.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AbstractAclVoter.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/intercept/AbstractSecurityInterceptor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java

* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationFailureServiceExceptionEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/ShaPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/DisabledException.java
*
/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/Md5PasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/memory/UserMap.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/session/SessionIdentifierAware.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/dao/SystemWideSaltSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDecisionVoter.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/NullRunAsManager.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java
*
/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/AuthenticationManager.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/event/PublicInvocationEvent.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/ConfigAttributeEditor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/memory/UserAttribute.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/context/SecurityContextImpl.java
*
/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/AccountExpiredException.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java
* /spring-security-core-3-2-4-release-sources-3-

jar/org/springframework/security/authentication/AbstractAuthenticationToken.java
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jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java
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jar/org/springframework/security/authentication/CredentialsExpiredException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/InsufficientAuthenticationException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/LoggerListener.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/BadCredentialsException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/AuthenticationDetailsSource.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/AuthenticationException.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/authority/GrantedAuthorityImpl.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/SpringSecurityMessageSource.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/AfterInvocationProvider.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java
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```
/**
* A token issued by {@link TokenService}.
*
* <p>
* It is important that the keys assigned to tokens are sufficiently randomised and secured that
* they can serve as identifying a unique user session. Implementations of {@link TokenService}
* are free to use encryption or encoding strategies of their choice. It is strongly recommended that
* keys are of sufficient length to balance safety against persistence cost. In relation to persistence
* cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
* </p>
*
* @author Ben Alex
* @since 2.0.1
*/
```

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/token/Token.java
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*/
```

Found in path(s):
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/PasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/Encryptors.java
*

/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/password/Digester.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/util/EncodingUtils.java
*
/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/CipherUtils.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/method/P.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java
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```
/**
   * Determines if the {@link #getAuthentication()} has permission to access the target given the permission
   * @param target the target domain object to check permission on
   * @param permission the permission to check on the domain object (i.e. "read", "write", etc).
   * @return true if permission is granted to the {@link #getAuthentication()}, else false
   */
```

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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*/

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
*
 /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
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*/
/**
* Reviews the <code>Object</code> returned from a secure object invocation,
* being able to modify the <code>Object</code> or throw an {@link
* AccessDeniedException}.
* <p>
* Typically used to ensure the principal is permitted to access the domain
* object instance returned by a service layer bean.
 Can also be used to
* mutate the domain object instance so the principal is only able to access
* authorised bean properties or <code>Collection</code> elements.
* <p>
* Special consideration should be given to using an
* <code>AfterInvocationManager</code> on bean methods that modify a database.
* Typically an <code>AfterInvocationManager</code> is used with read-only
* methods, such as <code>public DomainObject getById(id)</code>. If used with
* methods that modify a database, a transaction manager should be used to
* ensure any <code>AccessDeniedException</code> will cause a rollback of the
* changes made by the transaction.
* </p>
*
* @author Ben Alex
*/
```

Found in path(s):
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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*/
/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
Algorithm.
*
* @author Alan Stewart
*/
```

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/Md4.java
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```
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.
* <p>
* For internal use only.
*
* @author Luke Taylor
* @since 3.0
*/
```

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* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java
* /spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

1.184 yang-parser-impl 0.8.4-Beryllium-SR4

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* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
*
 /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/configurers/GlobalAuthenticationConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-

jar/org/springframework/security/config/annotation/web/AbstractRequestMatcherRegistry.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/ldap/LdapAuthenticationProviderConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegistry.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxyRegistrar.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnoreParents.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/AbstractSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/DaoAuthenticationConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/AuthenticationConfiguration.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AnonymousConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/UrlAuthorizationConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfigurerAdapter.java
* /spring-security-config-3-2-4-release-sources-

jar/org/springframework/security/config/annotation/web/servlet/configuration/EnableWebMvcSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/servlet/configuration/WebMvcSecurityConfiguration.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/HeadersConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/AbstractDaoAuthenticationConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configuration/EnableGlobalAuthentication.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractHttpConfigurer.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractInterceptUrlConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/SessionManagementConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/InMemoryUserDetailsManagerConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/HttpSecurity.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/openid/OpenIDLoginConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/http/HttpConfigurationBuilder.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java
*
/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/SecurityContextConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/SecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/FormLoginConfigurer.java
* /spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java
* /spring-security-config-3-2-4-release-sources-

jar/org/springframework/security/config/annotation/AlreadyBuiltException.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java
*
/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/RememberMeConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/ExpressionUrlAuthorizationConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsServiceConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/AbstractAuthenticationFilterConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsManagerConfigurer.java
*
/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/CsrfConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/WebSecurityConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/ServletApiConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/HttpBasicConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/ObjectPostProcessor.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/DefaultLoginPageConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/UserDetailsManagerConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/X509Configurer.java
*
/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configurers/ExceptionHandlingConfigurer.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityConfiguration.java
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* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/CsrfBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/method/MethodConfigUtils.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
*
 /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/AuthenticationConfigBuilder.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/LogoutBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HttpSecurityBeanDefinitionParser.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/WebConfigUtils.java
* /spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/HeadersBeanDefinitionParser.java

1.186 util 0.8.4-Beryllium-SR4

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1.187 mibble-commercial-parser 2.9.3

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```
RFC1213-MIB DEFINITIONS ::= BEGIN

IMPORTS
      mgmt, NetworkAddress, IpAddress, Counter, Gauge,
           TimeTicks
         FROM RFC1155-SMI
      OBJECT-TYPE
           FROM RFC-1212;

--  This MIB module uses the extended OBJECT-TYPE macro as
--  defined in [14];



--  MIB-II (same prefix as MIB-I)

mib-2      OBJECT IDENTIFIER ::= { mgmt 1 }

-- textual conventions

DisplayString ::=
  OCTET STRING
-- This data type is used to model textual information taken
```

```
-- from the NVT ASCII character set.  By convention, objects
-- with this syntax are declared as having

--
--      SIZE (0..255)

PhysAddress ::=
  OCTET STRING
-- This data type is used to model media addresses.  For many
-- types of media, this will be in a binary representation.
-- For example, an ethernet address would be represented as
-- a string of 6 octets.


-- groups in MIB-II

system       OBJECT IDENTIFIER ::= { mib-2 1 }

interfaces
  OBJECT IDENTIFIER ::= { mib-2 2 }

at          OBJECT IDENTIFIER ::= { mib-2 3 }

ip          OBJECT IDENTIFIER ::= { mib-2 4 }

icmp        OBJECT IDENTIFIER ::= { mib-2 5 }

tcp         OBJECT IDENTIFIER ::= { mib-2 6 }

udp         OBJECT IDENTIFIER ::= { mib-2 7 }

egp         OBJECT IDENTIFIER ::= { mib-2 8 }

-- historical (some say hysterical)
-- cmot      OBJECT IDENTIFIER ::= { mib-2 9 }

transmission OBJECT IDENTIFIER ::= { mib-2 10 }

snmp        OBJECT IDENTIFIER ::= { mib-2 11 }


-- the System group

-- Implementation of the System group is mandatory for all
-- systems.  If an agent is not configured to have a value
-- for any of these variables, a string of length 0 is
-- returned.
```

```
sysDescr OBJECT-TYPE
  SYNTAX  DisplayString (SIZE (0..255))
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A textual description of the entity.  This value
        should include the full name and version
        identification of the
 system's hardware type,
        software operating-system, and networking
        software.  It is mandatory that this only contain
        printable ASCII characters."
  ::= { system 1 }

sysObjectID OBJECT-TYPE
  SYNTAX  OBJECT IDENTIFIER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the
        entity.  This value is allocated within the SMI
        enterprises subtree (1.3.6.1.4.1) and provides an
        easy and unambiguous means for determining `what
        kind of box' is being managed.  For example, if
        vendor `Flintstones, Inc.' was assigned the
        subtree 1.3.6.1.4.1.4242, it could assign the
        identifier 1.3.6.1.4.1.4242.1.1 to its `Fred
        Router'."
  ::= { system 2 }

sysUpTime OBJECT-TYPE
  SYNTAX  TimeTicks
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
         "The time (in hundredths of a second) since the
        network management portion of the system was last
        re-initialized."
  ::= { system 3 }

sysContact OBJECT-TYPE
  SYNTAX  DisplayString (SIZE (0..255))
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The textual identification of the contact person
        for this managed node, together with information
```

```
        on how to contact this person."
    ::= { system 4 }

sysName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "An administratively-assigned name for this
        managed node.  By convention, this is the node's
        fully-qualified domain name."
    ::= { system 5 }

sysLocation OBJECT-TYPE
    SYNTAX  DisplayString (SIZE (0..255))
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The physical location of this node (e.g.,
        `telephone closet,
 3rd floor')."
    ::= { system 6 }

sysServices OBJECT-TYPE
    SYNTAX  INTEGER (0..127)
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "A value which indicates the set of services that
        this entity primarily offers.

        The value is a sum.  This sum initially takes the
        value zero, Then, for each layer, L, in the range
        1 through 7, that this node performs transactions
        for, 2 raised to (L - 1) is added to the sum.  For
        example, a node which performs primarily routing
        functions would have a value of 4 (2^(3-1)).  In
        contrast, a node which is a host offering
        application services would have a value of 72
        (2^(4-1) + 2^(7-1)).  Note that in the context of
        the Internet suite of protocols, values should be
        calculated accordingly:

            layer  functionality
                1  physical (e.g., repeaters)

            2  datalink/subnetwork (e.g., bridges)
                3  internet (e.g., IP gateways)
```

```
                4  end-to-end  (e.g., IP hosts)
                7  applications (e.g., mail relays)

        For systems including OSI protocols, layers 5 and
        6 may also be counted."
  ::= { system 7 }

-- the Interfaces group

-- Implementation of the Interfaces group is mandatory for
-- all systems.

ifNumber OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of network interfaces (regardless of
        their current state) present on this system."
  ::= { interfaces 1 }


-- the Interfaces table

-- The Interfaces table contains information on the entity's
-- interfaces.  Each interface is thought of as being
-- attached to a `subnetwork'.  Note that this term should
-- not be confused with `subnet' which refers to an
-- addressing partitioning scheme used in the Internet suite
-- of
 protocols.

ifTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IfEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A list of interface entries.  The number of
        entries is given by the value of ifNumber."
  ::= { interfaces 2 }

ifEntry OBJECT-TYPE
  SYNTAX  IfEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "An interface entry containing objects at the
        subnetwork layer and below for a particular
```

```
        interface."
    INDEX   { ifIndex }
    ::= { ifTable 1 }

IfEntry ::=
    SEQUENCE {
        ifIndex
            INTEGER,
        ifDescr
            DisplayString,
        ifType
            INTEGER,
        ifMtu
            INTEGER,
        ifSpeed
            Gauge,
        ifPhysAddress
            PhysAddress,
        ifAdminStatus
            INTEGER,
        ifOperStatus
            INTEGER,
        ifLastChange
            TimeTicks,
        ifInOctets
            Counter,
        ifInUcastPkts
             Counter,
        ifInNUcastPkts
            Counter,
        ifInDiscards
            Counter,
        ifInErrors
            Counter,
        ifInUnknownProtos
            Counter,
        ifOutOctets
            Counter,
        ifOutUcastPkts
            Counter,
        ifOutNUcastPkts
            Counter,
        ifOutDiscards
            Counter,
        ifOutErrors
            Counter,
        ifOutQLen
            Gauge,
```

```
      ifSpecific
        OBJECT IDENTIFIER
    }

ifIndex OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "A unique value for each interface.  Its value
            ranges between 1 and the value of ifNumber.  The
            value for each interface must remain constant at
            least from one re-initialization of the entity's
            network management system to the next re-
            initialization."
    ::= { ifEntry 1 }

ifDescr OBJECT-TYPE
    SYNTAX  DisplayString
  (SIZE (0..255))
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
            "A textual string containing information about the
            interface.  This string should include the name of
            the manufacturer, the product name and the version
            of the hardware interface."
    ::= { ifEntry 2 }

ifType OBJECT-TYPE
    SYNTAX  INTEGER {
                other(1),         -- none of the following
                regular1822(2),
                hdh1822(3),
                ddn-x25(4),
                rfc877-x25(5),
                ethernet-csmacd(6),
                iso88023-csmacd(7),
                iso88024-tokenBus(8),
                iso88025-tokenRing(9),
                iso88026-man(10),
                starLan(11),
                proteon-10Mbit(12),
                proteon-80Mbit(13),
                hyperchannel(14),
                fddi(15),
                lapb(16),
                sdlc(17),
```

```
            ds1(18),          -- T-1

        e1(19),           -- european equiv. of T-1
            basicISDN(20),
            primaryISDN(21),   -- proprietary serial
            propPointToPointSerial(22),
            ppp(23),
            softwareLoopback(24),
            eon(25),           -- CLNP over IP [11]
            ethernet-3Mbit(26),
            nsip(27),          -- XNS over IP
            slip(28),          -- generic SLIP
            ultra(29),         -- ULTRA technologies
            ds3(30),           -- T-3
            sip(31),           -- SMDS
            frame-relay(32)
          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The type of interface, distinguished according to
        the physical/link protocol(s) immediately `below'
        the network layer in the protocol stack."
  ::= { ifEntry 3 }

ifMtu OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION

      "The size of the largest datagram which can be
        sent/received on the interface, specified in
        octets.  For interfaces that are used for
        transmitting network datagrams, this is the size
        of the largest network datagram that can be sent
        on the interface."
  ::= { ifEntry 4 }

ifSpeed OBJECT-TYPE
  SYNTAX  Gauge
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "An estimate of the interface's current bandwidth
        in bits per second.  For interfaces which do not
        vary in bandwidth or for those where no accurate
        estimation can be made, this object should contain
```

```
        the nominal bandwidth."
  ::= { ifEntry 5 }

ifPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The interface's address at the protocol layer
        immediately `below' the network layer in the
        protocol stack.  For
 interfaces which do not have
        such an address (e.g., a serial line), this object
        should contain an octet string of zero length."
  ::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE
  SYNTAX  INTEGER {
            up(1),       -- ready to pass packets
            down(2),
            testing(3)   -- in some test mode
          }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The desired state of the interface.  The
        testing(3) state indicates that no operational
        packets can be passed."
  ::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE
  SYNTAX  INTEGER {
            up(1),       -- ready to pass packets
            down(2),
            testing(3)   -- in some test mode
          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The current operational state of the interface.
        The testing(3) state indicates that no operational
        packets can
 be passed."
  ::= { ifEntry 8 }

ifLastChange OBJECT-TYPE
  SYNTAX  TimeTicks
  ACCESS  read-only
```

```
  STATUS  mandatory
  DESCRIPTION
        "The value of sysUpTime at the time the interface
        entered its current operational state.  If the
        current state was entered prior to the last re-
        initialization of the local network management
        subsystem, then this object contains a zero
        value."
  ::= { ifEntry 9 }

ifInOctets OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of octets received on the
        interface, including framing characters."
  ::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of subnetwork-unicast packets
        delivered to a higher-layer protocol."
  ::= { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE
  SYNTAX  Counter
   ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of non-unicast (i.e., subnetwork-
        broadcast or subnetwork-multicast) packets
        delivered to a higher-layer protocol."
  ::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of inbound packets which were chosen
        to be discarded even though no errors had been
        detected to prevent their being deliverable to a
        higher-layer protocol.  One possible reason for
        discarding such a packet could be to free up
```

```
        buffer space."
    ::= { ifEntry 13 }

ifInErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of inbound packets that contained
        errors preventing them from being deliverable to a
        higher-layer protocol."
    ::= { ifEntry 14 }

ifInUnknownProtos
 OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of packets received via the interface
        which were discarded because of an unknown or
        unsupported protocol."
    ::= { ifEntry 15 }

ifOutOctets OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of octets transmitted out of the
        interface, including framing characters."
    ::= { ifEntry 16 }

ifOutUcastPkts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of packets that higher-level
        protocols requested be transmitted to a
        subnetwork-unicast address, including those that
        were discarded or not sent."
    ::= { ifEntry 17 }

ifOutNUcastPkts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
```

```
  DESCRIPTION
        "The total number
 of packets that higher-level
        protocols requested be transmitted to a non-
        unicast (i.e., a subnetwork-broadcast or
        subnetwork-multicast) address, including those
        that were discarded or not sent."
  ::= { ifEntry 18 }

ifOutDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of outbound packets which were chosen
        to be discarded even though no errors had been
        detected to prevent their being transmitted.  One
        possible reason for discarding such a packet could
        be to free up buffer space."
  ::= { ifEntry 19 }

ifOutErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of outbound packets that could not be
        transmitted because of errors."
  ::= { ifEntry 20 }

ifOutQLen OBJECT-TYPE
  SYNTAX  Gauge
  ACCESS  read-only
  STATUS  mandatory
   DESCRIPTION
        "The length of the output packet queue (in
        packets)."
  ::= { ifEntry 21 }

ifSpecific OBJECT-TYPE
  SYNTAX  OBJECT IDENTIFIER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A reference to MIB definitions specific to the
        particular media being used to realize the
        interface.  For example, if the interface is
        realized by an ethernet, then the value of this
```

```
            object refers to a document defining objects
            specific to ethernet.  If this information is not
            present, its value should be set to the OBJECT
            IDENTIFIER { 0 0 }, which is a syntatically valid
            object identifier, and any conformant
            implementation of ASN.1 and BER must be able to
            generate and recognize this value."
    ::= { ifEntry 22 }


-- the Address Translation group

-- Implementation of the Address Translation group is
-- mandatory for all
 systems.  Note however that this group
-- is deprecated by MIB-II. That is, it is being included

-- solely for compatibility with MIB-I nodes, and will most
-- likely be excluded from MIB-III nodes.  From MIB-II and
-- onwards, each network protocol group contains its own
-- address translation tables.

-- The Address Translation group contains one table which is
-- the union across all interfaces of the translation tables
-- for converting a NetworkAddress (e.g., an IP address) into
-- a subnetwork-specific address.  For lack of a better term,
-- this document refers to such a subnetwork-specific address
-- as a `physical' address.

-- Examples of such translation tables are: for broadcast
-- media where ARP is in use, the translation table is
-- equivalent to the ARP cache; or, on an X.25 network where
-- non-algorithmic translation to X.121 addresses is
-- required, the translation table contains the
-- NetworkAddress to X.121 address equivalences.

atTable OBJECT-TYPE
    SYNTAX
  SEQUENCE OF AtEntry
    ACCESS  not-accessible
    STATUS  deprecated
    DESCRIPTION
            "The Address Translation tables contain the
            NetworkAddress to `physical' address equivalences.
            Some interfaces do not use translation tables for
            determining address equivalences (e.g., DDN-X.25
            has an algorithmic method); if all interfaces are
            of this type, then the Address Translation table
```

```
        is empty, i.e., has zero entries."
  ::= { at 1 }

atEntry OBJECT-TYPE
  SYNTAX  AtEntry
  ACCESS  not-accessible
  STATUS  deprecated
  DESCRIPTION
        "Each entry contains one NetworkAddress to
        `physical' address equivalence."
  INDEX   { atIfIndex,
            atNetAddress }
  ::= { atTable 1 }

AtEntry ::=
  SEQUENCE {
     atIfIndex
        INTEGER,
     atPhysAddress
        PhysAddress,
     atNetAddress
        NetworkAddress
  }

atIfIndex OBJECT-TYPE
  SYNTAX
 INTEGER
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The interface on which this entry's equivalence
        is effective.  The interface identified by a
        particular value of this index is the same
        interface as identified by the same value of
        ifIndex."
  ::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The media-dependent `physical' address.

        Setting this object to a null string (one of zero
        length) has the effect of invaliding the
        corresponding entry in the atTable object.  That
        is, it effectively dissasociates the interface
```

```
        identified with said entry from the mapping
        identified with said entry.  It is an
        implementation-specific matter as to whether the
        agent removes an invalidated entry from the table.
        Accordingly,
 management stations must be prepared
        to receive tabular information from agents that
        corresponds to entries not currently in use.
        Proper interpretation of such entries requires
        examination of the relevant atPhysAddress object."
  ::= { atEntry 2 }

atNetAddress OBJECT-TYPE
  SYNTAX  NetworkAddress
  ACCESS  read-write
  STATUS  deprecated
  DESCRIPTION
        "The NetworkAddress (e.g., the IP address)
        corresponding to the media-dependent `physical'
        address."
  ::= { atEntry 3 }


-- the IP group

-- Implementation of the IP group is mandatory for all
-- systems.

ipForwarding OBJECT-TYPE
  SYNTAX  INTEGER {
            forwarding(1),    -- acting as a gateway
            not-forwarding(2) -- NOT acting as a gateway
          }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The indication of whether this entity is acting
        as an IP gateway in respect
 to the forwarding of
        datagrams received by, but not addressed to, this
        entity.  IP gateways forward datagrams.  IP hosts
        do not (except those source-routed via the host).

        Note that for some managed nodes, this object may
        take on only a subset of the values possible.
        Accordingly, it is appropriate for an agent to
        return a `badValue' response if a management
        station attempts to change this object to an
```

```
        inappropriate value."
    ::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    DESCRIPTION
        "The default value inserted into the Time-To-Live
        field of the IP header of datagrams originated at
        this entity, whenever a TTL value is not supplied
        by the transport layer protocol."
    ::= { ip 2 }

ipInReceives OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
     DESCRIPTION
        "The total number of input datagrams received from
        interfaces, including those received in error."
    ::= { ip 3 }

ipInHdrErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of input datagrams discarded due to
        errors in their IP headers, including bad
        checksums, version number mismatch, other format
        errors, time-to-live exceeded, errors discovered
        in processing their IP options, etc."
    ::= { ip 4 }

ipInAddrErrors OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of input datagrams discarded because
        the IP address in their IP header's destination
        field was not a valid address to be received at
        this entity.  This count includes invalid
        addresses (e.g., 0.0.0.0) and addresses of
        unsupported Classes (e.g.,
   Class E).  For entities
        which are not IP Gateways and therefore do not
```

forward datagrams, this counter includes datagrams
discarded because the destination address was not
a local address."
::= { ip 5 }

ipForwDatagrams OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of input datagrams for which this
entity was not their final IP destination, as a
result of which an attempt was made to find a
route to forward them to that final destination.
In entities which do not act as IP Gateways, this
counter will include only those packets which were
Source-Routed via this entity, and the Source-
Route option processing was successful."
::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of locally-addressed
datagrams
received successfully but discarded because of an
unknown or unsupported protocol."
::= { ip 7 }

ipInDiscards OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of input IP datagrams for which no
problems were encountered to prevent their
continued processing, but which were discarded
(e.g., for lack of buffer space). Note that this
counter does not include any datagrams discarded
while awaiting re-assembly."
::= { ip 8 }

ipInDelivers OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory

```
  DESCRIPTION
        "The total number of input datagrams successfully
        delivered to IP user-protocols (including ICMP)."
  ::= { ip 9 }

ipOutRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of IP datagrams
 which local IP
        user-protocols (including ICMP) supplied to IP in
        requests for transmission.  Note that this counter
        does not include any datagrams counted in
        ipForwDatagrams."
  ::= { ip 10 }

ipOutDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of output IP datagrams for which no
        problem was encountered to prevent their
        transmission to their destination, but which were
        discarded (e.g., for lack of buffer space).  Note
        that this counter would include datagrams counted
        in ipForwDatagrams if any such packets met this
        (discretionary) discard criterion."
  ::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams discarded because no
        route could be found to transmit them
 to their
        destination.  Note that this counter includes any
        packets counted in ipForwDatagrams which meet this
        `no-route' criterion.  Note that this includes any
        datagarms which a host cannot route because all of
        its default gateways are down."
  ::= { ip 12 }

ipReasmTimeout OBJECT-TYPE
```

```
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The maximum number of seconds which received
        fragments are held while they are awaiting
        reassembly at this entity."
  ::= { ip 13 }

ipReasmReqds OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP fragments received which needed
        to be reassembled at this entity."
  ::= { ip 14 }

ipReasmOKs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams successfully re-

       assembled."
  ::= { ip 15 }

ipReasmFails OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of failures detected by the IP re-
        assembly algorithm (for whatever reason: timed
        out, errors, etc).  Note that this is not
        necessarily a count of discarded IP fragments
        since some algorithms (notably the algorithm in
        RFC 815) can lose track of the number of fragments
        by combining them as they are received."
  ::= { ip 16 }

ipFragOKs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams that have been
```

```
        successfully fragmented at this entity."
  ::= { ip 17 }

ipFragFails OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagrams that have been
        discarded because they needed to
 be fragmented at
        this entity but could not be, e.g., because their
        Don't Fragment flag was set."
  ::= { ip 18 }

ipFragCreates OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of IP datagram fragments that have
        been generated as a result of fragmentation at
        this entity."
  ::= { ip 19 }

-- the IP address table

-- The IP address table contains this entity's IP addressing
-- information.

ipAddrTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpAddrEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The table of addressing information relevant to
        this entity's IP addresses."
  ::= { ip 20 }

ipAddrEntry OBJECT-TYPE
  SYNTAX  IpAddrEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The addressing information for one of this
        entity's IP addresses."
  INDEX   { ipAdEntAddr }
  ::=
```

```
 { ipAddrTable 1 }

IpAddrEntry ::=
  SEQUENCE {
     ipAdEntAddr
        IpAddress,
     ipAdEntIfIndex
        INTEGER,
     ipAdEntNetMask
        IpAddress,
     ipAdEntBcastAddr
        INTEGER,
     ipAdEntReasmMaxSize
        INTEGER (0..65535)
  }

ipAdEntAddr OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The IP address to which this entry's addressing
        information pertains."
  ::= { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The index value which uniquely identifies the
        interface to which this entry is applicable.  The
        interface identified by a particular value of this
        index is the same interface as identified by the
        same value of ifIndex."
  ::= { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS
 read-only
  STATUS  mandatory
  DESCRIPTION
        "The subnet mask associated with the IP address of
        this entry.  The value of the mask is an IP
        address with all the network bits set to 1 and all
        the hosts bits set to 0."
  ::= { ipAddrEntry 3 }
```

```
ipAdEntBcastAddr OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The value of the least-significant bit in the IP
        broadcast address used for sending datagrams on
        the (logical) interface associated with the IP
        address of this entry.  For example, when the
        Internet standard all-ones broadcast address is
        used, the value will be 1.  This value applies to
        both the subnet and network broadcasts addresses
        used by the entity on this (logical) interface."
  ::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
   STATUS  mandatory
  DESCRIPTION
        "The size of the largest IP datagram which this
        entity can re-assemble from incoming IP fragmented
        datagrams received on this interface."
  ::= { ipAddrEntry 5 }

-- the IP routing table

-- The IP routing table contains an entry for each route
-- presently known to this entity.

ipRouteTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpRouteEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "This entity's IP Routing table."
  ::= { ip 21 }

ipRouteEntry OBJECT-TYPE
  SYNTAX  IpRouteEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A route to a particular destination."
  INDEX   { ipRouteDest }
  ::= { ipRouteTable 1 }
```

```
IpRouteEntry ::=
  SEQUENCE {
    ipRouteDest
      IpAddress,
    ipRouteIfIndex
      INTEGER,
    ipRouteMetric1
      INTEGER,
    ipRouteMetric2
      INTEGER,
    ipRouteMetric3
       INTEGER,
    ipRouteMetric4
      INTEGER,
    ipRouteNextHop
      IpAddress,
    ipRouteType
      INTEGER,
    ipRouteProto
      INTEGER,
    ipRouteAge
      INTEGER,
    ipRouteMask
      IpAddress,
    ipRouteMetric5
      INTEGER,
    ipRouteInfo
      OBJECT IDENTIFIER
  }

ipRouteDest OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
      "The destination IP address of this route.  An
      entry with a value of 0.0.0.0 is considered a
      default route.  Multiple routes to a single
      destination can appear in the table, but access to
      such multiple entries is dependent on the table-
      access mechanisms defined by the network
      management protocol in use."
  ::= { ipRouteEntry 1 }

ipRouteIfIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
```

```
 DESCRIPTION
        "The index value which uniquely identifies the
        local interface through which the next hop of this
        route should be reached.  The interface identified
        by a particular value of this index is the same
        interface as identified by the same value of
        ifIndex."
  ::= { ipRouteEntry 2 }

ipRouteMetric1 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "The primary routing metric for this route.  The
        semantics of this metric are determined by the
        routing-protocol specified in the route's
        ipRouteProto value.  If this metric is not used,
        its value should be set to -1."
  ::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "An alternate routing metric for this route.  The
        semantics of this metric are determined
 by the
        routing-protocol specified in the route's
        ipRouteProto value.  If this metric is not used,
        its value should be set to -1."
  ::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "An alternate routing metric for this route.  The
        semantics of this metric are determined by the
        routing-protocol specified in the route's
        ipRouteProto value.  If this metric is not used,
        its value should be set to -1."
  ::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE
```

```
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "An alternate routing metric for this route.  The
          semantics of this metric are determined by the
          routing-protocol specified in the route's
          ipRouteProto value.  If this metric is not used,
          its value should be set to -1."
   ::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The IP address of the next hop of this route.
          (In the case of a route bound to an interface
          which is realized via a broadcast media, the value
          of this field is the agent's IP address on that
          interface.)"
  ::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE
  SYNTAX  INTEGER {
              other(1),       -- none of the following

              invalid(2),     -- an invalidated route

                              -- route to directly
              direct(3),      -- connected (sub-)network

                              -- route to a non-local
              indirect(4)     -- host/network/sub-network
          }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The type of route.  Note that the values
          direct(3) and indirect(4) refer
 to the notion of
          direct and indirect routing in the IP
          architecture.

          Setting this object to the value invalid(2) has
          the effect of invalidating the corresponding entry
          in the ipRouteTable object.  That is, it
          effectively dissasociates the destination
```

```
        identified with said entry from the route
        identified with said entry.  It is an
        implementation-specific matter as to whether the
        agent removes an invalidated entry from the table.
        Accordingly, management stations must be prepared
        to receive tabular information from agents that
        corresponds to entries not currently in use.
        Proper interpretation of such entries requires
        examination of the relevant ipRouteType object."
  ::= { ipRouteEntry 8 }

ipRouteProto OBJECT-TYPE
  SYNTAX  INTEGER {
            other(1),       -- none of the following


             -- non-protocol information,
                        -- e.g., manually configured
            local(2),       -- entries

                        -- set via a network
            netmgmt(3),     -- management protocol

                        -- obtained via ICMP,
            icmp(4),        -- e.g., Redirect

                        -- the remaining values are
                        -- all gateway routing
                        -- protocols
            egp(5),
            ggp(6),
            hello(7),
            rip(8),
            is-is(9),
            es-is(10),
            ciscoIgrp(11),
            bbnSpfIgp(12),
            ospf(13),
            bgp(14)
          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The routing mechanism via which this route was
        learned.  Inclusion of values for gateway routing
        protocols
 is not intended to imply that hosts
        should support those protocols."
```

::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION
"The number of seconds since this route was last updated or otherwise determined to be correct. Note that no semantics of `too old' can be implied except through knowledge of the routing protocol by which the route was learned."
::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE
SYNTAX IpAddress
ACCESS read-write
STATUS mandatory
DESCRIPTION
"Indicate the mask to be logical-ANDed with the destination address before being compared to the value in the ipRouteDest field. For those systems that do not support arbitrary subnet masks, an agent constructs the value of the ipRouteMask by determining whether the value of the correspondent ipRouteDest field belong to a class-A, B, or C network, and then using one of:

mask	network
255.0.0.0	class-A
255.255.0.0	class-B
255.255.255.0	class-C

If the value of the ipRouteDest is 0.0.0.0 (a default route), then the mask value is also 0.0.0.0. It should be noted that all IP routing subsystems implicitly use this mechanism."
::= { ipRouteEntry 11 }

ipRouteMetric5 OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-write
STATUS mandatory
DESCRIPTION
"An alternate routing metric for this route. The semantics of this metric are determined by the routing-protocol specified in the route's ipRouteProto value. If this metric is not used, its value should be set to -1."

```
  ::= { ipRouteEntry 12 }

ipRouteInfo OBJECT-TYPE
  SYNTAX  OBJECT IDENTIFIER
   ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "A reference to MIB definitions specific to the
        particular routing protocol which is responsible
        for this route, as determined by the value
        specified in the route's ipRouteProto value.  If
        this information is not present, its value should
        be set to the OBJECT IDENTIFIER { 0 0 }, which is
        a syntatically valid object identifier, and any
        conformant implementation of ASN.1 and BER must be
        able to generate and recognize this value."
  ::= { ipRouteEntry 13 }



-- the IP Address Translation table

-- The IP address translation table contain the IpAddress to
-- `physical' address equivalences.  Some interfaces do not
-- use translation tables for determining address
-- equivalences (e.g., DDN-X.25 has an algorithmic method);
-- if all interfaces are of this type, then the Address
-- Translation table is empty, i.e., has zero
 entries.

ipNetToMediaTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF IpNetToMediaEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The IP Address Translation table used for mapping
        from IP addresses to physical addresses."
  ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE
  SYNTAX  IpNetToMediaEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Each entry contains one IpAddress to `physical'
        address equivalence."
  INDEX   { ipNetToMediaIfIndex,
            ipNetToMediaNetAddress }
  ::= { ipNetToMediaTable 1 }
```

```
IpNetToMediaEntry ::=
  SEQUENCE {
    ipNetToMediaIfIndex
      INTEGER,
    ipNetToMediaPhysAddress
      PhysAddress,
    ipNetToMediaNetAddress
      IpAddress,
    ipNetToMediaType
      INTEGER
  }

ipNetToMediaIfIndex OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
      "The interface
 on which this entry's equivalence
      is effective.  The interface identified by a
      particular value of this index is the same
      interface as identified by the same value of
      ifIndex."
  ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE
  SYNTAX  PhysAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
      "The media-dependent `physical' address."
  ::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
      "The IpAddress corresponding to the media-
      dependent `physical' address."
  ::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE
  SYNTAX  INTEGER {
          other(1),       -- none of the following
          invalid(2),     -- an invalidated mapping
          dynamic(3),
```

```
            static(4)
        }
  ACCESS  read-write
  STATUS  mandatory
   DESCRIPTION
        "The type of mapping.

        Setting this object to the value invalid(2) has
        the effect of invalidating the corresponding entry
        in the ipNetToMediaTable.  That is, it effectively
        dissasociates the interface identified with said
        entry from the mapping identified with said entry.
        It is an implementation-specific matter as to
        whether the agent removes an invalidated entry
        from the table.  Accordingly, management stations
        must be prepared to receive tabular information
        from agents that corresponds to entries not
        currently in use.  Proper interpretation of such
        entries requires examination of the relevant
        ipNetToMediaType object."
  ::= { ipNetToMediaEntry 4 }


-- additional IP objects

ipRoutingDiscards OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number
 of routing entries which were chosen
        to be discarded even though they are valid.  One
        possible reason for discarding such an entry could
        be to free-up buffer space for other routing
        entries."
  ::= { ip 23 }


-- the ICMP group

-- Implementation of the ICMP group is mandatory for all
-- systems.

icmpInMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The total number of ICMP messages which the
        entity received.  Note that this counter includes
        all those counted by icmpInErrors."
  ::= { icmp 1 }

icmpInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP messages which the entity
        received but determined as having ICMP-specific
        errors (bad ICMP checksums, bad length, etc.)."
  ::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE
  SYNTAX  Counter

  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Destination Unreachable
        messages received."
  ::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Time Exceeded messages
        received."
  ::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Parameter Problem messages
        received."
  ::= { icmp 5 }

icmpInSrcQuenchs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The number of ICMP Source Quench messages
        received."
  ::= { icmp 6 }

icmpInRedirects OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Redirect messages received."
  ::= { icmp 7 }

icmpInEchos OBJECT-TYPE
   SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo (request) messages
        received."
  ::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo Reply messages received."
  ::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp (request) messages
        received."
  ::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp Reply messages
        received."
  ::= { icmp 11 }
```

```
icmpInAddrMasks OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Request messages
        received."
  ::= {
 icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Reply messages
        received."
  ::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of ICMP messages which this
        entity attempted to send.  Note that this counter
        includes all those counted by icmpOutErrors."
  ::= { icmp 14 }

icmpOutErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP messages which this entity did
        not send due to problems discovered within ICMP
        such as a lack of buffers.  This value should not
        include errors discovered outside the ICMP layer
        such as the inability of IP to route the resultant
        datagram.  In some implementations there may
 be no
        types of error which contribute to this counter's
        value."
  ::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
```

```
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Destination Unreachable
        messages sent."
  ::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Time Exceeded messages sent."
  ::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Parameter Problem messages
        sent."
  ::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Source Quench messages sent."
  ::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS
 mandatory
  DESCRIPTION
        "The number of ICMP Redirect messages sent.  For a
        host, this object will always be zero, since hosts
        do not send redirects."
  ::= { icmp 20 }

icmpOutEchos OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo (request) messages sent."
```

```
  ::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Echo Reply messages sent."
  ::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp (request) messages
        sent."
  ::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Timestamp Reply messages
        sent."
  ::= {
 icmp 24 }

icmpOutAddrMasks OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Request messages
        sent."
  ::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of ICMP Address Mask Reply messages
        sent."
  ::= { icmp 26 }
```

```
-- the TCP group

-- Implementation of the TCP group is mandatory for all
-- systems that implement the TCP.

-- Note that instances of object types that represent
-- information about a particular TCP connection are
-- transient; they persist only as long as the connection
-- in question.

tcpRtoAlgorithm OBJECT-TYPE
  SYNTAX  INTEGER {
              other(1),    -- none of the following

              constant(2), -- a constant rto
              rsre(3),     -- MIL-STD-1778, Appendix B
              vanj(4)      -- Van Jacobson's algorithm [10]

          }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The algorithm used to determine the timeout value
          used for retransmitting unacknowledged octets."
  ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The minimum value permitted by a TCP
          implementation for the retransmission timeout,
          measured in milliseconds.  More refined semantics
          for objects of this type depend upon the algorithm
          used to determine the retransmission timeout.  In
          particular, when the timeout algorithm is rsre(3),
          an object of this type has the semantics of the
          LBOUND quantity described in RFC 793."
  ::= { tcp 2 }


tcpRtoMax OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
          "The maximum value permitted by a TCP
```

implementation for the retransmission
timeout,
measured in milliseconds. More refined semantics
for objects of this type depend upon the algorithm
used to determine the retransmission timeout. In
particular, when the timeout algorithm is rsre(3),
an object of this type has the semantics of the
UBOUND quantity described in RFC 793."
::= { tcp 3 }

tcpMaxConn OBJECT-TYPE
SYNTAX INTEGER
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The limit on the total number of TCP connections
the entity can support. In entities where the
maximum number of connections is dynamic, this
object should contain the value -1."
::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of times TCP connections have made a
direct transition to the SYN-SENT state from the
CLOSED state."
::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of times TCP connections have made a
direct transition to the SYN-RCVD state from the
LISTEN state."
::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The number of times TCP connections have made a
direct transition to the CLOSED state from either

```
        the SYN-SENT state or the SYN-RCVD state, plus the
        number of times TCP connections have made a direct
        transition to the LISTEN state from the SYN-RCVD
        state."
    ::= { tcp 7 }

tcpEstabResets OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of times TCP connections have made a
        direct transition to the CLOSED state from either
        the
 ESTABLISHED state or the CLOSE-WAIT state."
    ::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE
    SYNTAX  Gauge
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The number of TCP connections for which the
        current state is either ESTABLISHED or CLOSE-
        WAIT."
    ::= { tcp 9 }

tcpInSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of segments received, including
        those received in error.  This count includes
        segments received on currently established
        connections."
    ::= { tcp 10 }

tcpOutSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    DESCRIPTION
        "The total number of segments sent, including
        those on current connections but excluding those
        containing only retransmitted octets."
    ::= { tcp 11 }
```

```
tcpRetransSegs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
   STATUS  mandatory
  DESCRIPTION
        "The total number of segments retransmitted - that
        is, the number of TCP segments transmitted
        containing one or more previously transmitted
        octets."
  ::= { tcp 12 }


-- the TCP Connection table

-- The TCP connection table contains information about this
-- entity's existing TCP connections.

tcpConnTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF TcpConnEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A table containing TCP connection-specific
        information."
  ::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
  SYNTAX  TcpConnEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about a particular current TCP
        connection.  An object of this type is transient,
        in that it ceases to exist when (or soon after)
        the connection makes the transition to the CLOSED
        state."
  INDEX
  { tcpConnLocalAddress,
          tcpConnLocalPort,
          tcpConnRemAddress,
          tcpConnRemPort }
  ::= { tcpConnTable 1 }

TcpConnEntry ::=
  SEQUENCE {
     tcpConnState
        INTEGER,
     tcpConnLocalAddress
```

```
        IpAddress,
    tcpConnLocalPort
        INTEGER (0..65535),
    tcpConnRemAddress
        IpAddress,
    tcpConnRemPort
        INTEGER (0..65535)
  }

tcpConnState OBJECT-TYPE
  SYNTAX  INTEGER {
              closed(1),
              listen(2),
              synSent(3),
              synReceived(4),
              established(5),
              finWait1(6),
              finWait2(7),
              closeWait(8),
              lastAck(9),
              closing(10),
              timeWait(11),
              deleteTCB(12)
          }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
          "The state of this TCP connection.

          The only value which may
 be set by a management
          station is deleteTCB(12).  Accordingly, it is
          appropriate for an agent to return a `badValue'
          response if a management station attempts to set
          this object to any other value.

          If a management station sets this object to the
          value deleteTCB(12), then this has the effect of
          deleting the TCB (as defined in RFC 793) of the
          corresponding connection on the managed node,
          resulting in immediate termination of the
          connection.

          As an implementation-specific option, a RST
          segment may be sent from the managed node to the
          other TCP endpoint (note however that RST segments
          are not sent reliably)."
  ::= { tcpConnEntry 1 }
```

```
tcpConnLocalAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The local IP address for this TCP connection.  In

  the case of a connection in the listen state which
        is willing to accept connections for any IP
        interface associated with the node, the value
        0.0.0.0 is used."
  ::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The local port number for this TCP connection."
  ::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The remote IP address for this TCP connection."
  ::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The remote port number for this TCP connection."
  ::= { tcpConnEntry 5 }


-- additional TCP objects

tcpInErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number
```

```
 of segments received in error
        (e.g., bad TCP checksums)."
  ::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of TCP segments sent containing the
        RST flag."
  ::= { tcp 15 }


-- the UDP group

-- Implementation of the UDP group is mandatory for all
-- systems which implement the UDP.

udpInDatagrams OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of UDP datagrams delivered to
        UDP users."
  ::= { udp 1 }

udpNoPorts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of received UDP datagrams for
        which there was no application at the destination
        port."
  ::= { udp 2 }

udpInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION

 "The number of received UDP datagrams that could
        not be delivered for reasons other than the lack
        of an application at the destination port."
  ::= { udp 3 }
```

```
udpOutDatagrams OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of UDP datagrams sent from this
        entity."
  ::= { udp 4 }


-- the UDP Listener table

-- The UDP listener table contains information about this
-- entity's UDP end-points on which a local application is
-- currently accepting datagrams.

udpTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF UdpEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "A table containing UDP listener information."
  ::= { udp 5 }

udpEntry OBJECT-TYPE
  SYNTAX  UdpEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about a particular current UDP
        listener."
  INDEX   { udpLocalAddress, udpLocalPort
 }
  ::= { udpTable 1 }

UdpEntry ::=
  SEQUENCE {
     udpLocalAddress
        IpAddress,
     udpLocalPort
        INTEGER (0..65535)
  }

udpLocalAddress OBJECT-TYPE
  SYNTAX  IpAddress
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The local IP address for this UDP listener.  In
        the case of a UDP listener which is willing to
        accept datagrams for any IP interface associated
        with the node, the value 0.0.0.0 is used."
  ::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
  SYNTAX  INTEGER (0..65535)
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The local port number for this UDP listener."
  ::= { udpEntry 2 }


-- the EGP group

-- Implementation of the EGP group is mandatory for all
-- systems which implement the EGP.

egpInMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received without
         error."
  ::= { egp 1 }

egpInErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received that proved
        to be in error."
  ::= { egp 2 }

egpOutMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of locally generated EGP
        messages."
  ::= { egp 3 }
```

```
egpOutErrors OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of locally generated EGP messages not
        sent due to resource limitations within an EGP
        entity."
  ::= { egp 4 }


-- the EGP Neighbor table

-- The EGP neighbor table contains information about this
-- entity's EGP neighbors.

egpNeighTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF EgpNeighEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "The EGP neighbor table."
   ::= { egp 5 }

egpNeighEntry OBJECT-TYPE
  SYNTAX  EgpNeighEntry
  ACCESS  not-accessible
  STATUS  mandatory
  DESCRIPTION
        "Information about this entity's relationship with
        a particular EGP neighbor."
  INDEX   { egpNeighAddr }
  ::= { egpNeighTable 1 }

EgpNeighEntry ::=
  SEQUENCE {
     egpNeighState
        INTEGER,
     egpNeighAddr
        IpAddress,
     egpNeighAs
        INTEGER,
     egpNeighInMsgs
        Counter,
     egpNeighInErrs
        Counter,
     egpNeighOutMsgs
        Counter,
```

```
      egpNeighOutErrs
         Counter,
      egpNeighInErrMsgs
         Counter,
      egpNeighOutErrMsgs
         Counter,
      egpNeighStateUps
         Counter,
      egpNeighStateDowns
         Counter,
      egpNeighIntervalHello
         INTEGER,
      egpNeighIntervalPoll
         INTEGER,
      egpNeighMode
         INTEGER,
      egpNeighEventTrigger

        INTEGER
   }

egpNeighState OBJECT-TYPE
   SYNTAX  INTEGER {
              idle(1),
              acquisition(2),
              down(3),
              up(4),
              cease(5)
           }
   ACCESS  read-only
   STATUS  mandatory
   DESCRIPTION
           "The EGP state of the local system with respect to
           this entry's EGP neighbor.  Each EGP state is
           represented by a value that is one greater than
           the numerical value associated with said state in
           RFC 904."
   ::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE
   SYNTAX  IpAddress
   ACCESS  read-only
   STATUS  mandatory
   DESCRIPTION
           "The IP address of this entry's EGP neighbor."
   ::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
```

```
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The autonomous system of this EGP peer.  Zero
        should be specified if the autonomous system
        number
 of the neighbor is not yet known."
  ::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received without error
        from this EGP peer."
  ::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP messages received from this EGP
        peer that proved to be in error (e.g., bad EGP
        checksum)."
  ::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of locally generated EGP messages to
        this EGP peer."
  ::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of locally generated EGP messages not
        sent to this
 EGP peer due to resource limitations
        within an EGP entity."
  ::= { egpNeighEntry 7 }
```

```
egpNeighInErrMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP-defined error messages received
        from this EGP peer."
  ::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP-defined error messages sent to
        this EGP peer."
  ::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP state transitions to the UP
        state with this EGP peer."
  ::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The number of EGP state transitions from the UP
        state to any
 other state with this EGP peer."
  ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The interval between EGP Hello command
        retransmissions (in hundredths of a second).  This
        represents the t1 timer as defined in RFC 904."
  ::= { egpNeighEntry 12 }
```

```
egpNeighIntervalPoll OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The interval between EGP poll command
        retransmissions (in hundredths of a second).  This
        represents the t3 timer as defined in RFC 904."
  ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
  SYNTAX  INTEGER { active(1), passive(2) }
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The polling mode of this EGP entity, either
        passive or active."
  ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
  SYNTAX  INTEGER
 { start(1), stop(2) }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "A control variable used to trigger operator-
        initiated Start and Stop events.  When read, this
        variable always returns the most recent value that
        egpNeighEventTrigger was set to.  If it has not
        been set since the last initialization of the
        network management subsystem on the node, it
        returns a value of `stop'.

        When set, this variable causes a Start or Stop
        event on the specified neighbor, as specified on
        pages 8-10 of RFC 904.  Briefly, a Start event
        causes an Idle peer to begin neighbor acquisition
        and a non-Idle peer to reinitiate neighbor
        acquisition.  A stop event causes a non-Idle peer
        to return to the Idle state until a Start event
        occurs, either via egpNeighEventTrigger or
        otherwise."
  ::= { egpNeighEntry
 15 }


-- additional EGP objects
```

```
egpAs OBJECT-TYPE
  SYNTAX  INTEGER
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The autonomous system number of this EGP entity."
  ::= { egp 6 }

-- the Transmission group

-- Based on the transmission media underlying each interface
-- on a system, the corresponding portion of the Transmission
-- group is mandatory for that system.

-- When Internet-standard definitions for managing
-- transmission media are defined, the transmission group is
-- used to provide a prefix for the names of those objects.

-- Typically, such definitions reside in the experimental
-- portion of the MIB until they are "proven", then as a
-- part of the Internet standardization process, the
-- definitions are accordingly elevated and a new object
-- identifier, under the transmission group is defined. By
-- convention, the name assigned is:
--
--     type OBJECT IDENTIFIER    ::= { transmission number }
--
-- where "type" is the symbolic
 value used for the media in
-- the ifType column of the ifTable object, and "number" is
-- the actual integer value corresponding to the symbol.


-- the SNMP group

-- Implementation of the SNMP group is mandatory for all
-- systems which support an SNMP protocol entity.  Some of
-- the objects defined below will be zero-valued in those
-- SNMP implementations that are optimized to support only
-- those functions specific to either a management agent or
-- a management station.  In particular, it should be
-- observed that the objects below refer to an SNMP entity,
-- and there may be several SNMP entities residing on a
-- managed node (e.g., if the node is hosting acting as
-- a management station).

snmpInPkts OBJECT-TYPE
  SYNTAX  Counter
```

ACCESS read-only
STATUS mandatory
DESCRIPTION
"The total number of Messages delivered to the
SNMP entity from the transport service."
::= { snmp 1 }

snmpOutPkts OBJECT-TYPE
SYNTAX Counter
ACCESS
read-only
STATUS mandatory
DESCRIPTION
"The total number of SNMP Messages which were
passed from the SNMP protocol entity to the
transport service."
::= { snmp 2 }

snmpInBadVersions OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The total number of SNMP Messages which were
delivered to the SNMP protocol entity and were for
an unsupported SNMP version."
::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The total number of SNMP Messages delivered to
the SNMP protocol entity which used a SNMP
community name not known to said entity."
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
DESCRIPTION
"The total number of SNMP Messages delivered to

the SNMP protocol entity which represented an SNMP
operation which was not allowed by the SNMP
community named in the Message."

```
  ::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of ASN.1 or BER errors
        encountered by the SNMP protocol entity when
        decoding received SNMP Messages."
  ::= { snmp 6 }

-- { snmp 7 } is not used

snmpInTooBigs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `tooBig'."
  ::= { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the
 SNMP protocol entity and for
        which the value of the error-status field is
        `noSuchName'."
  ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `badValue'."
  ::= { snmp 10 }
```

```
snmpInReadOnlys OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number valid SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `readOnly'.  It should be noted that it is a
        protocol error to generate an SNMP PDU which
        contains the value `readOnly' in the error-status
        field, as such this object is provided as a means
        of detecting
 incorrect implementations of the
        SNMP."
  ::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field is
        `genErr'."
  ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of MIB objects which have been
        retrieved successfully by the SNMP protocol entity
        as the result of receiving valid SNMP Get-Request
        and Get-Next PDUs."
  ::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of MIB objects which have been
        altered successfully by the SNMP protocol entity
        as the result
```

```
 of receiving valid SNMP Set-Request
        PDUs."
  ::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have
        been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 17 }

snmpInGetResponses OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
   DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
  ::= { snmp 18 }

snmpInTraps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
```

```
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
        which the value of the error-status field is
        `tooBig.'"
  ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
         which the value of the error-status is
        `noSuchName'."
  ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
        which the value of the error-status field is
        `badValue'."
  ::= { snmp 22 }

-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP PDUs which were
        generated by the SNMP protocol entity and for
```

```
        which the value of the error-status field is
        `genErr'."
  ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been generated by the SNMP protocol entity."
   ::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have
        been generated by the SNMP protocol entity."
  ::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 28 }

snmpOutTraps OBJECT-TYPE
  SYNTAX  Counter
  ACCESS  read-only
  STATUS  mandatory
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been generated by the SNMP protocol entity."
```

```
   ::= { snmp 29 }

snmpEnableAuthenTraps OBJECT-TYPE
  SYNTAX  INTEGER { enabled(1), disabled(2) }
  ACCESS  read-write
  STATUS  mandatory
  DESCRIPTION
        "Indicates whether the SNMP agent process is
        permitted to generate authentication-failure
        traps.  The value of this object overrides any
        configuration information; as such, it provides a
        means whereby all authentication-failure traps may
        be disabled.

        Note that it is strongly recommended that this
        object be stored in non-volatile memory so that it
        remains constant between re-initializations of the
        network management system."
  ::= { snmp 30 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-MIB
No license file was found, but licenses were detected in source scan.

```
IANAifType-MIB DEFINITIONS ::= BEGIN

 IMPORTS
    MODULE-IDENTITY, mib-2      FROM SNMPv2-SMI
    TEXTUAL-CONVENTION          FROM SNMPv2-TC;

 ianaifType MODULE-IDENTITY
    LAST-UPDATED "200709130000Z"  -- September 13, 2007
    ORGANIZATION "IANA"
    CONTACT-INFO "        Internet Assigned Numbers Authority

                  Postal: ICANN
                       4676 Admiralty Way, Suite 330
                       Marina del Rey, CA 90292

                  Tel:    +1 310 823 9358
                  E-Mail: iana&iana.org"

    DESCRIPTION  "This MIB module defines the IANAifType Textual
                  Convention, and thus the enumerated values of
                  the ifType object defined in MIB-II's ifTable."
```

```
    REVISION     "200709130000Z"  -- September 13, 2007
    DESCRIPTION  "Registration of new IANAifTypes 243 and 244."

    REVISION     "200705290000Z"
 -- May 29, 2007
    DESCRIPTION  "Changed the description for IANAifType 228."

    REVISION     "200703080000Z"  -- March 08, 2007
    DESCRIPTION  "Registration of new IANAifType 242."

    REVISION     "200701230000Z"  -- January 23, 2007
    DESCRIPTION  "Registration of new IANAifTypes 239, 240, and 241."

    REVISION     "200610170000Z"  -- October 17, 2006
    DESCRIPTION  "Deprecated/Obsoleted IANAifType 230.  Registration of
                  IANAifType 238."

    REVISION     "200609250000Z"  -- September 25, 2006
    DESCRIPTION  "Changed the description for IANA ifType
                  184 and added new IANA ifType 237."

    REVISION     "200608170000Z"  -- August 17, 2006
    DESCRIPTION  "Changed the descriptions for IANAifTypes
                  20 and 21."

    REVISION     "200608110000Z"  -- August 11, 2006
    DESCRIPTION  "Changed the descriptions for IANAifTypes
                  7, 11, 62,
69, and 117."

    REVISION     "200607250000Z"  -- July 25, 2006
    DESCRIPTION  "Registration of new IANA ifType 236."

    REVISION     "200606140000Z"  -- June 14, 2006
    DESCRIPTION  "Registration of new IANA ifType 235."

    REVISION     "200603310000Z"  -- March 31, 2006
    DESCRIPTION  "Registration of new IANA ifType 234."

    REVISION     "200603300000Z"  -- March 30, 2006
    DESCRIPTION  "Registration of new IANA ifType 233."

    REVISION     "200512220000Z"  -- December 22, 2005
    DESCRIPTION  "Registration of new IANA ifTypes 231 and 232."

    REVISION     "200510100000Z"  -- October 10, 2005
    DESCRIPTION  "Registration of new IANA ifType 230."
```

```
    REVISION     "200509090000Z"  -- September 09, 2005
    DESCRIPTION  "Registration of new IANA ifType 229."

    REVISION     "200505270000Z"  -- May 27, 2005
    DESCRIPTION  "Registration of new IANA ifType 228."

    REVISION     "200503030000Z"
-- March 3, 2005
    DESCRIPTION  "Added the IANAtunnelType TC and deprecated
            IANAifType sixToFour (215) per RFC4087."

    REVISION     "200411220000Z"  -- November 22, 2004
    DESCRIPTION  "Registration of new IANA ifType 227 per RFC4631."

    REVISION     "200406170000Z"  -- June 17, 2004
    DESCRIPTION  "Registration of new IANA ifType 226."

    REVISION     "200405120000Z"  -- May 12, 2004
    DESCRIPTION  "Added description for IANAifType 6, and
            changed the descriptions for IANAifTypes
             180, 181, and 182."

    REVISION     "200405070000Z"  -- May 7, 2004
    DESCRIPTION  "Registration of new IANAifType 225."

    REVISION     "200308250000Z"  -- Aug 25, 2003
    DESCRIPTION  "Deprecated IANAifTypes 7 and 11. Obsoleted
            IANAifTypes 62, 69, and 117.  ethernetCsmacd (6)
            should be used instead of these values"

    REVISION     "200308180000Z"
-- Aug 18, 2003
    DESCRIPTION  "Registration of new IANAifType
            224."

    REVISION     "200308070000Z"  -- Aug 7, 2003
    DESCRIPTION  "Registration of new IANAifTypes
            222 and 223."

    REVISION     "200303180000Z"  -- Mar 18, 2003
    DESCRIPTION  "Registration of new IANAifType
            221."

    REVISION     "200301130000Z"  -- Jan 13, 2003
    DESCRIPTION  "Registration of new IANAifType
            220."

    REVISION     "200210170000Z"  -- Oct 17, 2002
```

DESCRIPTION "Registration of new IANAifType
219."

REVISION "200207160000Z" -- Jul 16, 2002
DESCRIPTION "Registration of new IANAifTypes
217 and 218."

REVISION "200207100000Z" -- Jul 10, 2002
DESCRIPTION "Registration of new IANAifTypes
215 and 216."

REVISION "200206190000Z" -- Jun 19, 2002
DESCRIPTION "Registration
of new IANAifType
214."

REVISION "200201040000Z" -- Jan 4, 2002
DESCRIPTION "Registration of new IANAifTypes
211, 212 and 213."

REVISION "200112200000Z" -- Dec 20, 2001
DESCRIPTION "Registration of new IANAifTypes
209 and 210."

REVISION "200111150000Z" -- Nov 15, 2001
DESCRIPTION "Registration of new IANAifTypes
207 and 208."

REVISION "200111060000Z" -- Nov 6, 2001
DESCRIPTION "Registration of new IANAifType
206."

REVISION "200111020000Z" -- Nov 2, 2001
DESCRIPTION "Registration of new IANAifType
205."

REVISION "200110160000Z" -- Oct 16, 2001
DESCRIPTION "Registration of new IANAifTypes
199, 200, 201, 202, 203, and 204."

REVISION "200109190000Z" -- Sept 19, 2001
DESCRIPTION "Registration
of new IANAifType
198."

REVISION "200105110000Z" -- May 11, 2001
DESCRIPTION "Registration of new IANAifType
197."

REVISION "200101120000Z" -- Jan 12, 2001
DESCRIPTION "Registration of new IANAifTypes
195 and 196."

REVISION "200012190000Z" -- Dec 19, 2000
DESCRIPTION "Registration of new IANAifTypes
193 and 194."

REVISION "200012070000Z" -- Dec 07, 2000
DESCRIPTION "Registration of new IANAifTypes
191 and 192."

REVISION "200012040000Z" -- Dec 04, 2000
DESCRIPTION "Registration of new IANAifType
190."

REVISION "200010170000Z" -- Oct 17, 2000
DESCRIPTION "Registration of new IANAifTypes
188 and 189."

REVISION "200010020000Z" -- Oct 02, 2000
DESCRIPTION "Registration of new IANAifType
187."

REVISION "200009010000Z" -- Sept 01, 2000
DESCRIPTION "Registration of new IANAifTypes
184, 185, and 186."

REVISION "200008240000Z" -- Aug 24, 2000
DESCRIPTION "Registration of new IANAifType 183."

REVISION "200008230000Z" -- Aug 23, 2000
DESCRIPTION "Registration of new IANAifTypes
174-182."

REVISION "200008220000Z" -- Aug 22, 2000
DESCRIPTION "Registration of new IANAifTypes 170,
171, 172 and 173."

REVISION "200004250000Z" -- Apr 25, 2000
DESCRIPTION "Registration of new IANAifTypes 168 and 169."

```
    REVISION     "200003060000Z"  -- Mar 6, 2000
    DESCRIPTION  "Fixed a missing semi-colon in the IMPORT.
                  Also cleaned up the REVISION log a bit.
                  It is not complete, but from now on it will
                  be maintained and kept up to date with
each
                  change to this MIB module."

    REVISION     "199910081430Z"  -- Oct 08, 1999
    DESCRIPTION  "Include new name assignments up to cnr(85).
                  This is the first version available via the WWW
                  at: ftp://ftp.isi.edu/mib/ianaiftype.mib"

    REVISION     "199401310000Z"  -- Jan 31, 1994
    DESCRIPTION  "Initial version of this MIB as published in
                  RFC 1573."

    ::= { mib-2 30 }


 IANAifType ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
            "This data type is used as the syntax of the ifType
            object in the (updated) definition of MIB-II's
            ifTable.

            The definition of this textual convention with the
            addition of newly assigned values is published
            periodically by the IANA, in either the Assigned
            Numbers RFC, or some derivative of it specific to
            Internet
Network Management number assignments.  (The
            latest arrangements can be obtained by contacting the
            IANA.)

            Requests for new values should be made to IANA via
            email (iana&iana.org).

            The relationship between the assignment of ifType
            values and of OIDs to particular media-specific MIBs
            is solely the purview of IANA and is subject to change
            without notice.  Quite often, a media-specific MIB's
            OID-subtree assignment within MIB-II's 'transmission'
            subtree will be the same as its ifType value.
            However, in some circumstances this will not be the
            case, and implementors must not pre-assume any
            specific relationship between ifType values and
```

```
        transmission subtree OIDs."
    SYNTAX  INTEGER {
            other(1),          -- none of the following
            regular1822(2),
             hdh1822(3),
            ddnX25(4),
            rfc877x25(5),
            ethernetCsmacd(6), -- for all ethernet-like interfaces,
                        -- regardless of speed, as per RFC3635
            iso88023Csmacd(7), -- Deprecated via RFC3635
                        -- ethernetCsmacd (6) should be used instead
            iso88024TokenBus(8),
            iso88025TokenRing(9),
            iso88026Man(10),
            starLan(11), -- Deprecated via RFC3635
                    -- ethernetCsmacd (6) should be used instead
            proteon10Mbit(12),
            proteon80Mbit(13),
            hyperchannel(14),
            fddi(15),
            lapb(16),
            sdlc(17),
            ds1(18),            -- DS1-MIB
            e1(19),             -- Obsolete see DS1-MIB
            basicISDN(20),
      -- no longer used
                                -- see also RFC2127
            primaryISDN(21),            -- no longer used
                                -- see also RFC2127
            propPointToPointSerial(22), -- proprietary serial
            ppp(23),
            softwareLoopback(24),
            eon(25),            -- CLNP over IP
            ethernet3Mbit(26),
            nsip(27),           -- XNS over IP
            slip(28),           -- generic SLIP
            ultra(29),          -- ULTRA technologies
            ds3(30),            -- DS3-MIB
            sip(31),            -- SMDS, coffee
            frameRelay(32),     -- DTE only.
            rs232(33),
            para(34),           -- parallel-port
            arcnet(35),         -- arcnet
            arcnetPlus(36),     -- arcnet plus
            atm(37),
       -- ATM cells
            miox25(38),
            sonet(39),          -- SONET or SDH
```

```
            x25ple(40),
            iso88022llc(41),
            localTalk(42),
            smdsDxi(43),
            frameRelayService(44),  -- FRNETSERV-MIB
            v35(45),
            hssi(46),
            hippi(47),
            modem(48),          -- Generic modem
            aal5(49),           -- AAL5 over ATM
            sonetPath(50),
            sonetVT(51),
            smdsIcip(52),       -- SMDS InterCarrier Interface
            propVirtual(53),    -- proprietary virtual/internal
            propMultiplexor(54),-- proprietary multiplexing
            ieee80212(55),      -- 100BaseVG
            fibreChannel(56),   -- Fibre Channel
            hippiInterface(57), -- HIPPI interfaces
            frameRelayInterconnect(58), --
Obsolete use either
                        -- frameRelay(32) or
                        -- frameRelayService(44).
            aflane8023(59),     -- ATM Emulated LAN for 802.3
            aflane8025(60),     -- ATM Emulated LAN for 802.5
            cctEmul(61),        -- ATM Emulated circuit
            fastEther(62),      -- Obsoleted via RFC3635
                        -- ethernetCsmacd (6) should be used instead
            isdn(63),           -- ISDN and X.25
            v11(64),            -- CCITT V.11/X.21
            v36(65),            -- CCITT V.36
            g703at64k(66),      -- CCITT G703 at 64Kbps
            g703at2mb(67),      -- Obsolete see DS1-MIB
            qllc(68),           -- SNA QLLC
            fastEtherFX(69),    -- Obsoleted via RFC3635

           -- ethernetCsmacd (6) should be used instead
            channel(70),        -- channel
            ieee80211(71),      -- radio spread spectrum
            ibm370parChan(72),  -- IBM System 360/370 OEMI Channel
            escon(73),          -- IBM Enterprise Systems Connection
            dlsw(74),           -- Data Link Switching
            isdns(75),          -- ISDN S/T interface
            isdnu(76),          -- ISDN U interface
            lapd(77),           -- Link Access Protocol D
            ipSwitch(78),       -- IP Switching Objects
            rsrb(79),           -- Remote Source Route Bridging
            atmLogical(80),     -- ATM Logical Port
            ds0(81),            -- Digital Signal Level 0
```

```
            ds0Bundle(82),      -- group of ds0s on the same ds1
            bsc(83),            -- Bisynchronous Protocol

          async(84),          -- Asynchronous Protocol
            cnr(85),            -- Combat Net Radio
            iso88025Dtr(86),    -- ISO 802.5r DTR
            eplrs(87),          -- Ext Pos Loc Report Sys
            arap(88),           -- Appletalk Remote Access Protocol
            propCnls(89),       -- Proprietary Connectionless Protocol
            hostPad(90),        -- CCITT-ITU X.29 PAD Protocol
            termPad(91),        -- CCITT-ITU X.3 PAD Facility
            frameRelayMPI(92),  -- Multiproto Interconnect over FR
            x213(93),           -- CCITT-ITU X213
            adsl(94),           -- Asymmetric Digital Subscriber Loop
            radsl(95),          -- Rate-Adapt. Digital Subscriber Loop
            sdsl(96),           -- Symmetric Digital Subscriber Loop
            vdsl(97),           -- Very H-Speed Digital Subscrib. Loop
            iso88025CRFPInt(98),
-- ISO 802.5 CRFP
            myrinet(99),        -- Myricom Myrinet
            voiceEM(100),       -- voice recEive and transMit
            voiceFXO(101),      -- voice Foreign Exchange Office
            voiceFXS(102),      -- voice Foreign Exchange Station
            voiceEncap(103),    -- voice encapsulation
            voiceOverIp(104),   -- voice over IP encapsulation
            atmDxi(105),        -- ATM DXI
            atmFuni(106),       -- ATM FUNI
            atmIma (107),       -- ATM IMA
            pppMultilinkBundle(108), -- PPP Multilink Bundle
            ipOverCdlc (109),   -- IBM ipOverCdlc
            ipOverClaw (110),   -- IBM Common Link Access to Workstn
            stackToStack (111), -- IBM stackToStack
            virtualIpAddress (112), -- IBM VIPA
            mpc (113),          -- IBM multi-protocol channel support

ipOverAtm (114),    -- IBM ipOverAtm
            iso88025Fiber (115), -- ISO 802.5j Fiber Token Ring
            tdlc (116),         -- IBM twinaxial data link control
            gigabitEthernet (117), -- Obsoleted via RFC3635
                                -- ethernetCsmacd (6) should be used instead
            hdlc (118),         -- HDLC
            lapf (119),         -- LAP F
            v37 (120),          -- V.37
            x25mlp (121),       -- Multi-Link Protocol
            x25huntGroup (122), -- X25 Hunt Group
            trasnpHdlc (123),   -- Transp HDLC
            interleave (124),   -- Interleave channel
            fast (125),         -- Fast channel
```

ip (126), -- IP (for APPN HPR in IP networks)
docsCableMaclayer (127), -- CATV Mac Layer
docsCableDownstream (128), -- CATV Downstream interface
docsCableUpstream
(129), -- CATV Upstream interface
a12MppSwitch (130), -- Avalon Parallel Processor
tunnel (131), -- Encapsulation interface
coffee (132), -- coffee pot
ces (133), -- Circuit Emulation Service
atmSubInterface (134), -- ATM Sub Interface
l2vlan (135), -- Layer 2 Virtual LAN using 802.1Q
l3ipvlan (136), -- Layer 3 Virtual LAN using IP
l3ipxvlan (137), -- Layer 3 Virtual LAN using IPX
digitalPowerline (138), -- IP over Power Lines
mediaMailOverIp (139), -- Multimedia Mail over IP
dtm (140), -- Dynamic syncronous Transfer Mode
dcn (141), -- Data Communications Network
ipForward (142), -- IP Forwarding Interface
msdsl (143), -- Multi-rate Symmetric DSL

ieee1394 (144), -- IEEE1394 High Performance Serial Bus
if-gsn (145), -- HIPPI-6400
dvbRccMacLayer (146), -- DVB-RCC MAC Layer
dvbRccDownstream (147), -- DVB-RCC Downstream Channel
dvbRccUpstream (148), -- DVB-RCC Upstream Channel
atmVirtual (149), -- ATM Virtual Interface
mplsTunnel (150), -- MPLS Tunnel Virtual Interface
srp (151), -- Spatial Reuse Protocol
voiceOverAtm (152), -- Voice Over ATM
voiceOverFrameRelay (153), -- Voice Over Frame Relay
idsl (154), -- Digital Subscriber Loop over ISDN
compositeLink (155), -- Avici Composite Link Interface
ss7SigLink (156), -- SS7 Signaling Link
propWirelessP2P (157), -- Prop. P2P wireless interface
frForward (158), -- Frame Forward Interface
rfc1483 (159), -- Multiprotocol over ATM AAL5
usb (160), -- USB Interface
ieee8023adLag (161), -- IEEE 802.3ad Link Aggregate
bgppolicyaccounting (162), -- BGP Policy Accounting
frf16MfrBundle (163), -- FRF .16 Multilink Frame Relay
h323Gatekeeper (164), -- H323 Gatekeeper
h323Proxy (165), -- H323 Voice and Video Proxy
mpls (166), -- MPLS
mfSigLink (167), -- Multi-frequency signaling link
hdsl2 (168), -- High Bit-Rate DSL - 2nd generation
shdsl (169), -- Multirate HDSL2
ds1FDL (170), -- Facility Data Link 4Kbps on a DS1
pos (171), -- Packet over SONET/SDH Interface

dvbAsiIn (172), -- DVB-ASI Input
dvbAsiOut (173), -- DVB-ASI Output
plc (174), -- Power Line Communtications
nfas (175), -- Non Facility Associated Signaling
tr008 (176), -- TR008
gr303RDT (177), -- Remote Digital Terminal
gr303IDT (178), -- Integrated Digital Terminal
isup (179), -- ISUP
propDocsWirelessMaclayer (180), -- Cisco proprietary Maclayer
propDocsWirelessDownstream (181), -- Cisco proprietary Downstream
propDocsWirelessUpstream (182), -- Cisco proprietary Upstream
hiperlan2 (183), -- HIPERLAN Type 2 Radio Interface
propBWAp2Mp (184), -- PropBroadbandWirelessAccesspt2multipt
-- use of this iftype for IEEE 802.16 WMAN
-- interfaces as per IEEE Std 802.16f is
-- deprecated and ifType 237 should be used instead.
sonetOverheadChannel (185), -- SONET Overhead Channel
digitalWrapperOverheadChannel
(186), -- Digital Wrapper
aal2 (187), -- ATM adaptation layer 2
radioMAC (188), -- MAC layer over radio links
atmRadio (189), -- ATM over radio links
imt (190), -- Inter Machine Trunks
mvl (191), -- Multiple Virtual Lines DSL
reachDSL (192), -- Long Reach DSL
frDlciEndPt (193), -- Frame Relay DLCI End Point
atmVciEndPt (194), -- ATM VCI End Point
opticalChannel (195), -- Optical Channel
opticalTransport (196), -- Optical Transport
propAtm (197), -- Proprietary ATM
voiceOverCable (198), -- Voice Over Cable Interface
infiniband (199), -- Infiniband
teLink (200), -- TE Link
q2931 (201), -- Q.2931
virtualTg (202), -- Virtual Trunk Group

sipTg (203), -- SIP Trunk Group
sipSig (204), -- SIP Signaling
docsCableUpstreamChannel (205), -- CATV Upstream Channel
econet (206), -- Acorn Econet
pon155 (207), -- FSAN 155Mb Symetrical PON interface
pon622 (208), -- FSAN622Mb Symetrical PON interface
bridge (209), -- Transparent bridge interface
linegroup (210), -- Interface common to multiple lines
voiceEMFGD (211), -- voice E&M Feature Group D
voiceFGDEANA (212), -- voice FGD Exchange Access North American
voiceDID (213), -- voice Direct Inward Dialing
mpegTransport (214), -- MPEG transport interface

```
            sixToFour (215), -- 6to4 interface (DEPRECATED)
            gtp (216), -- GTP (GPRS Tunneling Protocol)
            pdnEtherLoop1 (217), -- Paradyne EtherLoop 1
            pdnEtherLoop2
(218), -- Paradyne EtherLoop 2
            opticalChannelGroup (219), -- Optical Channel Group
            homepna (220), -- HomePNA ITU-T G.989
            gfp (221), -- Generic Framing Procedure (GFP)
            ciscoISLvlan (222), -- Layer 2 Virtual LAN using Cisco ISL
            actelisMetaLOOP (223), -- Acteleis proprietary MetaLOOP High Speed Link
            fcipLink (224), -- FCIP Link
            rpr (225), -- Resilient Packet Ring Interface Type
            qam (226), -- RF Qam Interface
            lmp (227), -- Link Management Protocol
            cblVectaStar (228), -- Cambridge Broadband Networks Limited VectaStar
            docsCableMCmtsDownstream (229), -- CATV Modular CMTS Downstream Interface
            adsl2 (230), -- Asymmetric Digital Subscriber Loop Version 2
                    -- (DEPRECATED/OBSOLETED - please use adsl2plus 238 instead)

        macSecControlledIF (231), -- MACSecControlled
            macSecUncontrolledIF (232), -- MACSecUncontrolled
            aviciOpticalEther (233), -- Avici Optical Ethernet Aggregate
            atmbond (234), -- atmbond
            voiceFGDOS (235), -- voice FGD Operator Services
            mocaVersion1 (236), -- MultiMedia over Coax Alliance (MoCA) Interface
                    -- as documented in information provided privately to IANA
            ieee80216WMAN (237), -- IEEE 802.16 WMAN interface
            adsl2plus (238), -- Asymmetric Digital Subscriber Loop Version 2,
                        -- Version 2 Plus and all variants
            dvbRcsMacLayer (239), -- DVB-RCS MAC Layer
            dvbTdm (240), -- DVB Satellite TDM
            dvbRcsTdma (241), -- DVB-RCS TDMA
            x86Laps (242), -- LAPS based on ITU-T X.86/Y.1323
            wwanPP (243), -- 3GPP
WWAN
            wwanPP2 (244) -- 3GPP2 WWAN
            }

IANAtunnelType ::= TEXTUAL-CONVENTION
  STATUS     current
  DESCRIPTION
        "The encapsulation method used by a tunnel. The value
        direct indicates that a packet is encapsulated
        directly within a normal IP header, with no
        intermediate header, and unicast to the remote tunnel
        endpoint (e.g., an RFC 2003 IP-in-IP tunnel, or an RFC
        1933 IPv6-in-IPv4 tunnel). The value minimal indicates
        that a Minimal Forwarding Header (RFC 2004) is
```

```
        inserted between the outer header and the payload
        packet. The value UDP indicates that the payload
        packet is encapsulated within a normal UDP packet
        (e.g., RFC 1234).

        The values sixToFour, sixOverFour, and isatap
        indicates that an IPv6 packet is encapsulated directly
        within an IPv4 header, with no intermediate header,

        and unicast to the destination determined by the 6to4,
        6over4, or ISATAP protocol.

        The remaining protocol-specific values indicate that a
        header of the protocol of that name is inserted
        between the outer header and the payload header.

        The assignment policy for IANAtunnelType values is
        identical to the policy for assigning IANAifType
        values."
    SYNTAX     INTEGER {
                other(1),       -- none of the following
                direct(2),      -- no intermediate header
                gre(3),         -- GRE encapsulation
                minimal(4),     -- Minimal encapsulation
                l2tp(5),        -- L2TP encapsulation
                pptp(6),        -- PPTP encapsulation
                l2f(7),         -- L2F encapsulation
                udp(8),         -- UDP encapsulation
                atmp(9),        -- ATMP encapsulation

              msdp(10),       -- MSDP encapsulation
                sixToFour(11),  -- 6to4 encapsulation
                sixOverFour(12), -- 6over4 encapsulation
                isatap(13),     -- ISATAP encapsulation
                teredo(14)      -- Teredo encapsulation
              }

   END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANAifType-MIB
No license file was found, but licenses were detected in source scan.

```
APM-MIB DEFINITIONS ::= BEGIN
IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  NOTIFICATION-TYPE,
  Counter32, Unsigned32                    FROM SNMPv2-SMI
```

```
  TEXTUAL-CONVENTION, RowStatus, TimeStamp,
  TimeInterval, TruthValue, DateAndTime,
  StorageType                         FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP,
  NOTIFICATION-GROUP                  FROM SNMPv2-CONF
  SnmpAdminString                     FROM SNMP-FRAMEWORK-MIB
  rmon, OwnerString                   FROM RMON-MIB
  protocolDirLocalIndex               FROM RMON2-MIB;

--  Application Performance Measurement MIB

apm MODULE-IDENTITY
  LAST-UPDATED "200402190000Z"  -- February 19, 2004
  ORGANIZATION "IETF RMON MIB Working Group"
  CONTACT-INFO
    "Author:
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      Working Group Mailing List: <rmonmib@ietf.org>
      To subscribe send email to: <rmonmib-request@ietf.org>
    "
  DESCRIPTION
    "The MIB module for measuring application performance
    as experienced by end-users.

    Copyright (C) The Internet Society (2004). This version of
    this MIB module is part of RFC 3729; see the RFC itself for
    full legal notices."

  REVISION "200402190000Z"    -- February 19, 2004
  DESCRIPTION
    "The original version of this MIB Module, published as
    RFC3729."
```

::= { rmon 23 }

apmMibObjects OBJECT IDENTIFIER ::= { apm 1 }
apmConformance OBJECT IDENTIFIER ::= { apm 2 }
apmCompliances
OBJECT IDENTIFIER ::= { apmConformance 1 }
apmGroups OBJECT IDENTIFIER ::= { apmConformance 2 }

AppLocalIndex ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"A locally arbitrary unique identifier associated with an
application or application verb.

All objects of type AppLocalIndex are assigned by the agent
out of a common number space. In other words, AppLocalIndex
values assigned to entries in one table must not overlap with
AppLocalIndex values assigned to entries in another
table. Further, every protocolDirLocalIndex value registered
by the agent automatically assigns the same value out of the

AppLocalIndex number space.

For example, if the protocolDirLocalIndex values { 1, 3, 5, 7 }
have been assigned, and the apmHttpFilterAppLocalIndex values
{ 6, 8, 9 } have been assigned:

- Assignment of new AppLocalIndex values must not use
the
values { 1, 3, 5, 6, 7, 8, 9 }.
- AppLocalIndex values { 1, 3, 5, 7 } are automatically
assigned and are associated with the identical value of
protocolDirLocalIndex. In particular, an entry in the
apmAppDirTable indexed by a value provides further
information about a protocol indexed by the same value
in the protocolDirTable of RMON2.

The value for each supported application must remain constant
at least from one re-initialization of the entity's network
management system to the next re-initialization, except that
if an application is deleted and re-created, it must be
re-created with a new value that has not been used since the
last re-initialization.

The specific value is meaningful only within a given SNMP

entity. An AppLocalIndex value must not be re-used until the
next agent restart."
SYNTAX Unsigned32
(1..2147483647)

ProtocolDirNetworkAddress ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"A network level address whose semantics and encoding are
specified by an associated protocolDirLocalIndex
value. Objects of this type must specify which
protocolDirLocalIndex value is used. This value is encoded
according to the encoding rules for the identified
protocolDirectory entry.

For example, if the associated protocolDirLocalIndex indicates
an encapsulation of ip, this object is encoded as a length
octet of 4, followed by the 4 octets of the ip address,
in network byte order.

Objects of this type may allow this value to be the zero
length string. If so, they must identify they meaning of this
value."
SYNTAX OCTET STRING (SIZE(0..255))

DataSourceOrZero ::= TEXTUAL-CONVENTION

STATUS current
DESCRIPTION
"Identifies the source of
the data that the associated
function is configured to analyze. This source can be any
interface on this device.

In order to identify a particular interface, this
object shall identify the instance of the ifIndex
object, defined in [4], for the desired interface.

For example, if an entry were to receive data from
interface #1, this object would be set to ifIndex.1.

If the source of the data isn't an interface or cannot be
localized to an interface, this object would be set to 0.0"

REFERENCE "The DataSource textual convention is defined in
RFC 2021 [5]."

```
  SYNTAX      OBJECT IDENTIFIER

RmonClientID ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION
      "A long-lived unique ID assigned to an end-system. This ID is
      assigned by the agent using an implementation-specific
      algorithm.

      Because a client machine may be assigned multiple addresses

     over any time period it can be difficult to attribute
      behavior to a particular client based solely on its
      address. A ClientID may be assigned to provide a more
      stable handle for referencing that client. The entity that
      assigns the ClientID may use various implementation
      techniques to keep track of a client but if the assigning
      entity is unable to track client address mappings, it may map
      client identifiers to client addresses rather than to
      distinct client machines.

      This is named ClientID because it helps to solve a problem
      seen in network clients (servers usually have well-known,
      long-lived addresses). However, ClientID's may be assigned to
      any end-system regardless of its role on the network."
  SYNTAX      Unsigned32 (0..4294967295)


TransactionAggregationType ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION



      "Specifies one of 4 different techniques
 for aggregating
      transactions.

      The metrics for a single transaction are the responsiveness of
      the transaction and whether the transaction succeeded (a
      boolean). When such metrics are aggregated in this MIB Module,
      these metrics are replaced by averages and distributions of
      responsiveness and availability. The metrics describing
      aggregates are constant no matter which type of aggregation is
      being performed. These metrics may be found in the
      apmReportTable.

      The flows(1) aggregation is the simplest. All transactions
```

```
        that share common application/server/client 3-tuples are
        aggregated together, resulting in a set of metrics for all
        such unique 3-tuples.

        The clients(2) aggregation results in somewhat more
        aggregation (i.e., fewer resulting records). All transactions
        that share common application/client tuples are aggregated
        together, resulting in a
    set of metrics for all such unique
        tuples.

        The servers(3) aggregation usually results in still more
        aggregation (i.e., fewer resulting records). All transactions
        that share common application/server tuples are aggregated
        together, resulting in a set of metrics for all such unique
        tuples.

        The applications(4) aggregation results in the most
        aggregation (i.e., the fewest resulting records). All
        transactions that share a common application are aggregated
        together, resulting in a set of metrics for all such unique
        applications.

        Note that it is not meaningful to aggregate applications, as
        different applications have widely varying characteristics. As a
        result, this set of aggregations is complete."
    SYNTAX      INTEGER {
                    flows(1),    -- Least Aggregation
                    clients(2),
                    servers(3),
                    applications(4) -- Most Aggregation
                   }

-- The APM Application Directory Group

-- The Application Directory Table contains a record for every




-- application monitored by this agent. This table is also used to
-- configure whether or not an application will be measured and which
-- bucket boundaries will be used for the application.
--
-- The bucket boundaries define the break-points between bins of a
-- histogram analysis for that application. As an example of how this
-- works, consider an entry representing response-time for http.
-- If the boundaries are set as follows:
-- Boundary1: 500 milliseconds
```

```
-- Boundary2: 1 second
-- Boundary3: 2 seconds
-- Boundary4: 5
-- Boundary5: 15
-- Boundary6: 60
--
-- If the following measurements are made (all in milliseconds):
-- 377, 8645, 1300, 487, 1405, 775, 1115, 850, 945, 1054, 7745, 9380
--
-- A report run during this interval would report the following
-- counts:
-- Bucket1: 2
-- Bucket2: 3
-- Bucket3: 4
-- Bucket4: 0
-- Bucket5: 3
-- Bucket6: 0
--
 Bucket7: 0

apmAppDirTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmAppDirEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The APM MIB directory of applications and application
     verbs. The agent will populate this table with all
     applications/verbs of any responsivenessType it has the
     capability to monitor. Since the agent populates this table
     with every entry it has the capability to monitor, the
     entries in this table are read-write, allowing the management
     station to modify parameters in this table but not to add new
     entries or delete entries (however, entries may be
     disabled). If new entries are added to the apmHttpFilterTable
     or the apmUserDefinedAppTable, the agent will add the
     corresponding entries to this table.

     It is an implementation-dependent matter as to how the agent
     sets these default parameters. For example, it may leave
     certain entries
 in this table 'off(0)' if the agent developer



     believes that combination will be infrequently used, allowing
     a manager that needs that capability to set it to 'on(1)'.

     Some applications are registered in the RMON2 protocol
```

```
      directory and some are registered in other tables in this
      MIB Module. Regardless of where an application is originally
      registered, it is assigned an AppLocalIndex value that is the
      primary index for this table.

      The contents of this table affect all reports and exceptions
      generated by this agent. Accordingly, modification of this
      table should be performed by a manager acting in the role of
      administrator. In particular, management software should not
      require or enforce particular configuration of this table - it
      should reflect the preferences of the site administrator, not
      the software author. As a practical matter, this requires
      management
 software to allow the administrator to configure
      the values it will use so that it can be adapted to the site
      policy."
  ::= { apmMibObjects 1 }

apmAppDirEntry OBJECT-TYPE
  SYNTAX      ApmAppDirEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "The APM MIB directory of applications and application
      verbs. An entry will exist in this table for all applications
      for which application performance measurement is supported."
  INDEX { apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType }
  ::= { apmAppDirTable 1 }

ApmAppDirEntry ::= SEQUENCE {
  apmAppDirAppLocalIndex           AppLocalIndex,
  apmAppDirResponsivenessType      INTEGER,
  apmAppDirConfig                  INTEGER,
  apmAppDirResponsivenessBoundary1  Unsigned32,
  apmAppDirResponsivenessBoundary2  Unsigned32,
  apmAppDirResponsivenessBoundary3  Unsigned32,
  apmAppDirResponsivenessBoundary4  Unsigned32,
  apmAppDirResponsivenessBoundary5
 Unsigned32,
  apmAppDirResponsivenessBoundary6  Unsigned32
}

apmAppDirAppLocalIndex OBJECT-TYPE
  SYNTAX      AppLocalIndex
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
     "The AppLocalIndex assigned for this application Directory
     entry."
  ::= { apmAppDirEntry 1 }

apmAppDirResponsivenessType OBJECT-TYPE
  SYNTAX      INTEGER {
                transactionOriented(1),
                throughputOriented(2),
                streamingOriented(3)
              }
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This object describes and configures the agent's support for
     application performance measurement for this application.
     There are 3 types of measurements for different types of
     applications:

     Transaction-Oriented applications have a fairly constant
     workload to perform for all transactions. The responsiveness
     metric for transaction-oriented
 applications is application
     response time (from first request to final delivery of
     service) and is measured in milliseconds. This is
     commonly referred to as end-user response time.

     Throughput-Oriented applications have widely varying workloads
     based on the nature of the client request. In particular,
     throughput-oriented applications vary widely in the amount of
     data that must be transported to satisfy the request. The
     responsiveness metric for throughput-oriented applications is
     kilobits per second.

     Streaming-Oriented applications deliver data at a constant
     metered rate of speed regardless of the responsiveness of the
     networking and computing infrastructure. This constant rate of
     speed is generally specified to be below (sometimes well
     below) the nominal capability of the infrastructure. However,
     when the infrastructures cannot deliver data at this speed,
      interruption of service or degradation of service can
     result. The responsiveness metric for streaming-oriented
     applications is the ratio of time that the service is degraded
     or interrupted to the total service time. This metric is
     measured in parts per million.
```

Note that for some applications, measuring more than one responsiveness type may be interesting. For agents that wish

to support more than one measurement for a application, they will populate this table with multiple entries for that application, one for each type."
::= { apmAppDirEntry 2 }

apmAppDirConfig OBJECT-TYPE
SYNTAX INTEGER {
off(1),
on(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object describes and configures support for application performance measurement for this application.

If the value of this object is on(2), the agent supports measurement of application performance metrics for this application and is configured to measure such metrics for all APM MIB functions and all interfaces. If the value of this object is off(1), the agent supports measurement of application performance for this application but is configured to not measure these metrics for any APM MIB functions or interfaces. Whenever this value changes from on(2) to off(1), the agent shall delete all related entries in all tables in this MIB Module.

The value of this object must persist across reboots."
::= { apmAppDirEntry 3 }

apmAppDirResponsivenessBoundary1 OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The boundary value between bucket1 and bucket 2. If this value is modified, all entries in the apmReportTable must be deleted by the agent.

The value of this object must persist across reboots."
::= { apmAppDirEntry 4 }

```
apmAppDirResponsivenessBoundary2 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "The boundary value between bucket2 and bucket 3. If this



     value is modified, all entries in the apmReportTable must be
     deleted by the agent.

     The value of this object must persist across reboots."
  ::= { apmAppDirEntry 5 }

apmAppDirResponsivenessBoundary3 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "The boundary value between bucket3 and bucket 4. If this
     value is modified, all entries in the apmReportTable must be
     deleted by the agent.

     The value of this object must persist across reboots."
  ::= { apmAppDirEntry 6 }

apmAppDirResponsivenessBoundary4 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
   DESCRIPTION
     "The boundary value between bucket4 and bucket 5. If this
     value is modified, all entries in the apmReportTable must be
     deleted by the agent.

     The value of this object must persist across reboots."
  ::= { apmAppDirEntry 7 }

apmAppDirResponsivenessBoundary5 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "The boundary value between bucket5 and bucket 6. If this
     value is modified, all entries in the apmReportTable must be
     deleted by the agent.
```

```
      The value of this object must persist across reboots."
   ::= { apmAppDirEntry 8 }

apmAppDirResponsivenessBoundary6 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The boundary value between bucket6 and bucket 7. If this




      value is modified, all entries in the apmReportTable must be
      deleted by the agent.

      The value of
 this object must persist across reboots."
   ::= { apmAppDirEntry 9 }

-- Scalars related to the Application Directory table

apmBucketBoundaryLastChange OBJECT-TYPE
   SYNTAX     TimeStamp
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The value of sysUpTime the last time that any bucket boundary
      in any appDirEntry was changed. This object can help to
      determine if two managers are both trying to enforce different
      configurations of this table."
   ::= { apmMibObjects 2 }

apmAppDirID OBJECT-TYPE
   SYNTAX     OBJECT IDENTIFIER
   MAX-ACCESS read-write
   STATUS     current
   DESCRIPTION
      "This object allows managers to avoid downloading application
      directory information when the directory is set to a known
      (usually fixed) configuration.

      If the value of this object isn't 0.0, it signifies
      that the entire contents of the apmAppDirTable,
      apmHttpFilterTable, apmUserDefinedAppTable and
       protocolDirTable are equal to a known state identified
      by the value of this object. If a manager recognizes this
      value as identifying a directory configuration it has a local
```

copy of, it may use this local copy rather than downloading these tables. Note that it may have downloaded this local copy (and the ID) from another agent and used this copy for all other agents that advertised the same ID.

If an agent recognizes that the entire contents of the apmAppDirTable, apmHttpFilterTable, apmUserDefinedAppTable and protocolDirTable are equal to a known state to which an ID has been assigned, it should set this object to that ID.

In many cases when this feature is used, the application directory information will be in read-only memory and thus the tables may not be modified via SNMP requests. In the event

that the tables are writable and a modification is made, the agent is responsible for setting this object to 0.0 if it cannot determine that the state is equal to a known state.

An agent is not obligated to recognize and advertise all such registered states as it may not have knowledge of all states. Thus, a manager may encounter agents whose DirectoryID value is 0.0 even though the contents of the directory were equal to a registered state.

Note that the contents of those tables includes the protocolDirLocalIndex and appLocalIndex values. In other words, these values can't be assigned randomly on each agent, but must be equal to values that are part of the known state. While it is possible for a manager to download application directory details using SNMP and to set the appropriate directoryID, the manager would need to have some scheme to ensure consistent values of LocalIndex variables from agent to agent. Such schemes are outside the scope of this specification.

Application directory registrations are unique within an administrative domain.

Typically these registrations will be made by an agent software developer who will set the application directory tables to a read-only state and assign a DirectoryID to that state. Thus, all agents running this software would share the same DirectoryID. As the application directory might change

```
      from one software release to the next, the developer may
      register different DirectoryID's for each software release.

      A customer could also create a site-wide application directory
      configuration and assign a DirectoryID to that configuration
      as long as consistent values of LocalIndex variables can be
      ensured.

      The value of this object must persist across reboots."
    ::= { apmMibObjects 3 }

-- APM HTTP Filter Table

-- The HTTP Filter Table
 creates virtual applications which measure the
-- performance of certain web pages  or sets of web pages. Some
-- circumstances where this is particularly useful are:
--
--      - An Intranet or ASP scenario where a business application is
--        running on one or more web pages or scripts.



--        (i.e., /expense/submit.cgi?employeeID=3426&...)
--      - A web-hosting scenario where one wants to measure the
--        service level for a particular customer
--      - An e-commerce scenario where the performance of certain
--        pages needs to be monitored more closely.
--        (i.e., shopping cart, shipping, credit card authorization)

apmHttpFilterTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF ApmHttpFilterEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A table that creates virtual applications which measure the
      performance of certain web pages or sets of web pages.

      When an entry is added to this table, the agent
 will
      automatically create one or more entries in the
      apmAppDirTable (one for each responsivenessType it is
      capable of measuring).

      Note that when entries exist in this table some HTTP
      transactions will be summarized twice: in applications
      represented here as well as the HTTP application. If entries
      in this table overlap, these transactions may be summarized
```

```
      additional times.

      The contents of this table affect all reports and exceptions
      generated by this agent. Accordingly, modification of this
      table should be performed by a manager acting in the role of
      administrator. In particular, management software should not
      require or enforce particular configuration of this table - it
      should reflect the preferences of the site administrator, not
      the software author."
  ::= { apmMibObjects 4 }

apmHttpFilterEntry OBJECT-TYPE
  SYNTAX      ApmHttpFilterEntry
  MAX-ACCESS  not-accessible
   STATUS      current
  DESCRIPTION
     "A virtual application which measure the performance of certain
     web pages or sets of web pages."
  INDEX { apmHttpFilterIndex }
  ::= { apmHttpFilterTable 1 }

ApmHttpFilterEntry ::= SEQUENCE {
  apmHttpFilterIndex             Unsigned32,
  apmHttpFilterAppLocalIndex      AppLocalIndex,



  apmHttpFilterServerProtocol     Unsigned32,
  apmHttpFilterServerAddress      ProtocolDirNetworkAddress,
  apmHttpFilterURLPath           OCTET STRING,
  apmHttpFilterMatchType          INTEGER,
  apmHttpFilterOwner             OwnerString,
  apmHttpFilterStorageType        StorageType,
  apmHttpFilterRowStatus          RowStatus
}

apmHttpFilterIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An index that uniquely identifies an entry in the
     apmHttpFilterTable."
  ::= { apmHttpFilterEntry 1 }

apmHttpFilterAppLocalIndex
 OBJECT-TYPE
  SYNTAX      AppLocalIndex
```

```
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The AppLocalIndex that represents HTTP transactions
     that match this entry.

     This object is read-only. A value is created by the agent from
     an unused AppLocalIndex value when this apmHttpFilterEntry is
     created."
  ::= { apmHttpFilterEntry 2 }

apmHttpFilterServerProtocol OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The protocolDirLocalIndex value of the network level protocol
     of the apmHttpFilterServerAddress."
  ::= { apmHttpFilterEntry 3 }

apmHttpFilterServerAddress OBJECT-TYPE
  SYNTAX      ProtocolDirNetworkAddress
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This entry will only represent transactions coming from the
     network address specified in this object.




     This is represented
 as an octet string with
     specific semantics and length as identified
     by the associated apmHttpFilterServerProtocol object.

     If this object is the zero-length string, then this entry will
     match one of the addresses represented by the 'host' component
     of the associated apmHttpFilterURLPath object, where the
     format if a URL [9] is
     http://<host>:<port>/<path>?<searchpart>."
  ::= { apmHttpFilterEntry 4 }

apmHttpFilterURLPath OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(0..65535))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

"This entry will only represent HTTP transactions
where the URL path component in the request matches this
value. This value represents the requested path regardless of
any substitution that the server might perform.

Prior to the matching, the URL is stripped of any server
address or DNS name and consists solely of the path name on

that server.

If the length of this object is zero, then this entry will
match if the associated apmHttpFilterServerAddress match. If
the length of that object is also zero, then this entry will
match nothing.

The value of the associated apmHttpFilterMatchType dictates
the type of matching that will be attempted."
::= { apmHttpFilterEntry 5 }

apmHttpFilterMatchType OBJECT-TYPE
SYNTAX INTEGER {
exact(1),
stripTrailingSlash(2),
prefix(3)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The matching algorithm used to compare the URL pathname.

If the value is exact(1), then the pathname component will be
compared with the associated apmHttpFilterURLPath and
will only be associated with this entry if it matches exactly.

If the value is stripTrailingSlash(2), then the pathname

component will be compared with the associated
apmHttpFilterURLPath and will only be associated with this
entry if it matches exactly or if the pathname ends with a '/'
symbol and matches apmHttpFilterURLPath if the '/' symbol is
removed from the pathname. This option exists for those paths
where an optional trailing slash is possible but for which a
prefix match would be too broad.

If the value is prefix(3), then the pathname component will be
compared with the associated apmHttpFilterURLPath and will

only be associated with this entry if the beginning of the
pathname matches every octet of this value. Octets that extend
beyond the length of this value are ignored."
::= { apmHttpFilterEntry 6 }

apmHttpFilterOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is
therefore using
the resources assigned to it."
::= { apmHttpFilterEntry 7 }

apmHttpFilterStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type of this apmHttpFilterEntry. If the value of
this object is 'permanent', no objects in this row need to be
writable."
::= { apmHttpFilterEntry 8 }

apmHttpFilterRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this apmHttpFilterEntry. No objects in this row
may be modified while the row's status is 'active'."
::= { apmHttpFilterEntry 9 }

apmHttpIgnoreUnregisteredURLs OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current

DESCRIPTION
"When true, APM measurements of HTTP transactions will only
measure transactions relating to URLs that match a filter in
the apmHttpFilterTable. Thus,
measurements for the HTTP
application will present aggregated statistics for
URL-matching HTTP transactions and measurements for the HTTP

```
      GET application verb will present aggregated statistics for
      URL-matching HTTP GET transactions.

      This will be used in environments that wish to monitor only
      targeted URLs and to ignore large volumes of internet web
      browsing traffic.

      This object affects all APM reports and exceptions generated
      by this agent. Accordingly, modification of this object should
      be performed by a manager acting in the role of
      administrator. In particular, management software should not
      require or enforce particular configuration of this object -
      it should reflect the preferences of the site administrator,
      not the software author.

      The value of this object must persist across reboots."
  ::= { apmMibObjects 5 }

apmHttp4xxIsFailure OBJECT-TYPE
  SYNTAX
    TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "When true, this agent will recognize HTTP errors in the range
      of 400 through 499 and will treat them as unavailable
      transactions. When false or when this object isn't supported,
      they will be treated as successful transactions.

      This object allows such error pages to be tracked at the
      possible expense of having user typos treated as poor service
      on the part of the web server.

      This object affects all reports and exceptions generated by
      this agent. Accordingly, modification of this object should be
      performed by a manager acting in the role of administrator. In
      particular, management software should not require or enforce
      particular configuration of this object - it should reflect
      the preferences of the site administrator, not the software
      author.

      The value of this object must persist
 across reboots."
  ::= { apmMibObjects 6 }



-- The APM User-Defined Application Table
```

```
-- Many application protocols will never be registered with a
-- standards body (and thus included in a protocol directory standard)
-- because they are custom, in-house or proprietary
-- applications. Nevertheless, implementation strategies exist for
-- monitoring the end-user experience of these applications.
--
-- This read-only table provides a means for the agent to advertise
-- which user-defined applications it is monitoring and to associate
-- each with an AppLocalIndex value. It is an implementation-dependent
-- matter as to how the agent learns how to monitor these
-- applications.

apmUserDefinedAppTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmUserDefinedAppEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A table that advertises user-defined applications that the
     agent is measuring.

     The agent will automatically create one or more
 entries in the
     apmAppDirTable (one for each responsivenessType it is
     capable of measuring) for each entry in this table.

     Note that when entries exist in this table some
     transactions can be summarized more than once if there is
     overlap between applications defined here and applications
     defined in the protocol directory or in the httpFilter table."
  ::= { apmMibObjects 7 }

apmUserDefinedAppEntry OBJECT-TYPE
  SYNTAX      ApmUserDefinedAppEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A user-defined application that the agent is measuring, along
     with its AppLocalIndex assignment.

     The apmAppDirAppLocalIndex value in the index identifies
     the agent-assigned AppLocalIndex value for this user-defined
     application."
  INDEX { apmAppDirAppLocalIndex }
  ::= { apmUserDefinedAppTable 1 }

ApmUserDefinedAppEntry ::= SEQUENCE {
  apmUserDefinedAppParentIndex    Unsigned32,
```

```
    apmUserDefinedAppApplication    SnmpAdminString
}

apmUserDefinedAppParentIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The protocolDirLocalIndex value of the highest-layer
     protocol defined in the protocolDirTable that this
     application is a child of."
  ::= { apmUserDefinedAppEntry 1 }

apmUserDefinedAppApplication OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "A human readable descriptive tag for this application."
  ::= { apmUserDefinedAppEntry 2 }

-- The APM Name Table

apmNameTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmNameEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A client machine may have multiple addresses during a period
     of monitoring. The apmNameTable assigns a long-lived
     identifier to a client and records what addresses
 were
     assigned to that client for periods of time. Various
     implementation techniques exist for tracking this mapping but
     if an agent is unable to track client address mappings, it may
     map client identifiers to client addresses rather than to
     distinct client machines.

     A particular apmNameClientID should be a constant attribute of
     a particular client. When available, the agent may also record
     the machine name and/or user name which may be valuable for
     displaying to humans. The apmNameMachineName and
     apmNameUserName are relatively constant, changing only if
     these attributes actually change on the client.
```

The agent will store a historical log of these entries, aging
out old entries as the log becomes too large. Since this table
contains information vital to the interpretation of other
tables (e.g., the apmReportTable), the agent should ensure that

the log doesn't
age out entries that would be referenced by
data in those tables.

Note that an entry for a clientID is active from its
StartTime until the StartTime of another entry (for the same
clientID) that supersedes it, or 'now' if none supersede
it. Therefore, if a clientID only has a single entry, it is by
definition very new and should never be aged out. No entry for
a clientID should be aged out unless it has been updated by a
new entry for the client (i.e., with an updated address) and
only if the new entry is 'old' enough.

To determine how old is old enough, compute the maximum value
of Interval * (NumReports + 1) of all entries in the
apmReportControlTable (the '+ 1' is to allow a reasonable
period of time for the report to be downloaded). Then take the
larger of this value and the age in seconds of the oldest
entry in the current transaction table. If an entry for
a
clientID is superseded by another entry whose StartTime is
more than this many seconds ago, then the older entry may be
deleted."
::= { apmMibObjects 8 }

apmNameEntry OBJECT-TYPE
SYNTAX ApmNameEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the APM name table. An entry exists for each
period of time that a client has been associated with a
particular address.

The protocolDirLocalIndex value in the index identifies
the network layer protocol for the ClientAddress for this
entry.

Note that some combinations of index values may result in an
index that exceeds 128 sub-identifiers in length which exceeds
the maximum for the SNMP protocol. Implementations should take

```
      care to avoid such combinations."
  INDEX { apmNameClientID,
          protocolDirLocalIndex, apmNameClientAddress,
          apmNameMappingStartTime }
  ::=
 { apmNameTable 1 }

ApmNameEntry ::= SEQUENCE {
  apmNameClientID               RmonClientID,
  apmNameClientAddress          ProtocolDirNetworkAddress,



  apmNameMappingStartTime       DateAndTime,
  apmNameMachineName            SnmpAdminString,
  apmNameUserName               SnmpAdminString
}

apmNameClientID OBJECT-TYPE
  SYNTAX      RmonClientID
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A unique ID assigned to the machine represented by this
      mapping. This ID is assigned by the agent using an
      implementation-specific algorithm."
  ::= { apmNameEntry 1 }

apmNameClientAddress OBJECT-TYPE
  SYNTAX      ProtocolDirNetworkAddress (SIZE(1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network client address for this client when this mapping
     was active.

     This is represented as an octet string with specific semantics
     and length as
 identified by the protocolDirLocalIndex
     component of the index. This object may not be the zero length
     string.

     Since this object is an index variable, it is encoded in the
     index according to the index encoding rules.  For example, if
     the protocolDirLocalIndex component of the index indicates an
     encapsulation of ip, this object is encoded as a length octet
     of 4, followed by the 4 octets of the ip address, in network
     byte order. Care should be taken to avoid values of this
```

```
      object that, in conjunction with the other index variables,
      would result in an index longer than SNMP's maximum of 128
      subidentifiers."
   ::= { apmNameEntry 2 }

apmNameMappingStartTime OBJECT-TYPE
   SYNTAX      DateAndTime
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The time that the agent first discovered this mapping
      as active."
   ::= { apmNameEntry 3 }




apmNameMachineName OBJECT-TYPE
    SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The human readable name of the client machine.

      If the client has no machine name or the agent is
      unable to learn the machine name, this object will be
      a zero-length string."
   ::= { apmNameEntry 4 }

apmNameUserName OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The human readable name of a human user using the client
      machine. If more than one user name are available
      simultaneously, it is an implementation-dependent matter as to
      which is used here. However, if the user name changes, this
      object should change to reflect that change.

      Non-human user names like 'root' or 'administrator' aren't
      intended as values for this object. If the client has no
      recorded user name or the agent is unable to learn a user
      name, this
 object will be a zero-length string."
   ::= { apmNameEntry 5 }

-- The APM Report Group
```

```
apmReportControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmReportControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Parameters that control the creation of a set of reports that
     aggregate application performance."
  ::= { apmMibObjects 9 }

apmReportControlEntry OBJECT-TYPE
  SYNTAX      ApmReportControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the apmReportControlTable.

     An example of the indexing of this table is




     apmReportControlInterval.3"
  INDEX { apmReportControlIndex }
  ::= { apmReportControlTable 1 }

ApmReportControlEntry ::= SEQUENCE {
  apmReportControlIndex           Unsigned32,
  apmReportControlDataSource      DataSourceOrZero,
  apmReportControlAggregationType  TransactionAggregationType,
  apmReportControlInterval
 Unsigned32,
  apmReportControlRequestedSize    Unsigned32,
  apmReportControlGrantedSize      Unsigned32,
  apmReportControlRequestedReports Unsigned32,
  apmReportControlGrantedReports   Unsigned32,
  apmReportControlStartTime        TimeStamp,
  apmReportControlReportNumber     Unsigned32,
  apmReportControlDeniedInserts    Counter32,
  apmReportControlDroppedFrames    Counter32,
  apmReportControlOwner           OwnerString,
  apmReportControlStorageType      StorageType,
  apmReportControlStatus          RowStatus
}


apmReportControlIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..65535)
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
     "An index that uniquely identifies an entry in the
     apmReportControlTable.  Each such entry defines a unique
     report whose results are placed in the apmReportTable on
     behalf of this apmReportControlEntry."
  ::= { apmReportControlEntry 1 }

apmReportControlDataSource OBJECT-TYPE
   SYNTAX      DataSourceOrZero
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The source of the data for APM Reports generated on
     behalf of this apmReportControlEntry.

     If the measurement is being performed by a probe, this should
     be set to interface or port where data was received for
     analysis. If the measurement isn't being performed by a probe,
     this should be set to the primary interface over which the
     measurement is being performed. If the measurement isn't being
     performed by a probe and there is no primary interface or this



     information isn't known, this object should be set to 0.0.

     This object may not be modified if the associated
     apmReportControlStatus object is equal to active(1)."
  ::= { apmReportControlEntry 2 }

apmReportControlAggregationType OBJECT-TYPE
  SYNTAX      TransactionAggregationType
        --    INTEGER {
        --      flows(1),
         --      clients(2),
        --      servers(3),
        --      applications(4)
        --    }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The type of aggregation being performed for this set of
     reports.

     The metrics for a single transaction are the responsiveness of
     the transaction and whether the transaction succeeded (a
     boolean). When such metrics are aggregated in this MIB Module,
```

these metrics are replaced by averages and distributions of responsiveness and availability. The metrics describing aggregates are constant no matter which type of aggregation is being performed. These metrics may be found in the apmReportTable.

The flows(1) aggregation is the simplest. All transactions that share common application/server/client 3-tuples are aggregated together, resulting in a set of metrics for all such unique 3-tuples.

The clients(2) aggregation results in somewhat more aggregation (i.e., fewer resulting records). All transactions that share common application/client tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The servers(3) aggregation usually results in still more aggregation (i.e., fewer resulting records). All transactions that share common application/server tuples are aggregated together, resulting in a set of metrics for all such unique tuples.

The applications(4) aggregation results in the most aggregation (i.e., the fewest resulting records). All

transactions that share a common application are aggregated together, resulting in a set of metrics for all such unique applications.

Note that it is not meaningful to aggregate applications, as different applications have widely varying characteristics. As
a result, this set of aggregations is complete.

This object may not be modified if the associated apmReportControlStatus object is equal to active(1)."
::= { apmReportControlEntry 3 }

apmReportControlInterval OBJECT-TYPE
SYNTAX Unsigned32
UNITS "Seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The interval in seconds over which data is accumulated before

```
      being aggregated into a report in the apmReportTable.  All
      reports with the same apmReportControlIndex will be based on
      the same interval. This object must be greater than zero.

      Many users desire that these reports be synchronized to within
      seconds of the beginning of the hour because the results may
      be correlated more meaningfully to business behavior and so
      that data from multiple agents is aggregated over the same
      time periods. Thus management software may take extra effort
      to synchronize
 reports to the beginning of the hour and to one
      another. However, the agent must not allow reports to 'drift'
      over time as they will quickly become unsynchronized. In
      particular, if there is any fixed processing delay between
      reports, the reports should deduct this time from the interval
      so that reports don't drift.

      This object may not be modified if the associated
      apmReportControlStatus object is equal to active(1)."
   DEFVAL { 3600 }
   ::= { apmReportControlEntry 4 }

apmReportControlRequestedSize OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The number of entries requested to be allocated for each
      report generated on behalf of this entry."
   ::= { apmReportControlEntry 5 }



apmReportControlGrantedSize OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of entries per
 report the agent has allocated
      based on the requested amount in apmReportControlRequestedSize.
      Since multiple reports are saved, the total number of entries
      allocated will be this number multiplied by the value of
      apmReportControlGrantedReports, or 1 if that object doesn't
      exist.

      When the associated apmReportControlRequestedSize object is
      created or modified, the agent should set this object as
```

```
      closely to the requested value as is possible for the
      particular implementation and available resources. When
      considering resources available, the agent must consider its
      ability to allocate this many entries for all reports.

      Note that while the actual number of entries stored in the
      reports may fluctuate due to changing conditions, the agent
      must continue to have storage available to satisfy the full
      report size for all reports when necessary. Further, the agent
      must
 not lower this value except as a result of a set to the
      associated apmReportControlRequestedSize object."
  ::= { apmReportControlEntry 6 }

apmReportControlRequestedReports OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The number of saved reports requested to be allocated on
      behalf of this entry."
  ::= { apmReportControlEntry 7 }

apmReportControlGrantedReports OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of saved reports the agent has allocated
      based on the requested amount in
      apmReportControlRequestedReports. Since each report can have
      many entries, the total number of entries allocated will be
      this number multiplied by the value of
      apmReportControlGrantedSize, or 1 if that object doesn't
      exist.



      When the associated apmReportControlRequestedReports
 object is
      created or modified, the agent should set this object as
      closely to the requested value as is possible for the
      particular implementation and available resources. When
      considering resources available, the agent must consider its
      ability to allocate this many reports each with the number of
      entries represented by apmReportControlGrantedSize, or 1 if
      that object doesn't exist.
```

Note that while the storage required for each report may
fluctuate due to changing conditions, the agent must continue
to have storage available to satisfy the full report size for
all reports when necessary. Further, the agent must not lower
this value except as a result of a set to the associated
apmReportControlRequestedSize object."
::= { apmReportControlEntry 8 }

apmReportControlStartTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"The value of sysUpTime when the system began processing the
report in progress. Note that the report in progress is not
available.

This object may be used by the management station to figure
out the start time for all previous reports saved for this
apmReportControlEntry, as reports are started at fixed
intervals."
::= { apmReportControlEntry 9 }

apmReportControlReportNumber OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of the report in progress. When an
apmReportControlEntry is activated, the first report will be
numbered one."
::= { apmReportControlEntry 10 }

apmReportControlDeniedInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of failed attempts to add an entry to reports for

this apmReportControlEntry
because the number of entries
would have exceeded apmReportControlGrantedSize.

This number is valuable in determining if enough entries have

```
        been allocated for reports in light of fluctuating network
        usage. Note that since an entry that is denied will often be
        attempted again, this number will not predict the exact number
        of additional entries needed, but can be used to understand
        the relative magnitude of the problem.

        Also note that there is no ordering specified for the entries
        in the report, thus there are no rules for which entries will
        be omitted when not enough entries are available. As a
        consequence, the agent is not required to delete 'least
        valuable' entries first."
    ::= { apmReportControlEntry 11 }

apmReportControlDroppedFrames OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "The total number of frames which were
 received by the agent
        and therefore not accounted for in the *StatsDropEvents, but
        for which the agent chose not to count for this entry for
        whatever reason.  Most often, this event occurs when the agent
        is out of some resources and decides to shed load from this
        collection.

        This count does not include packets that were not counted
        because they had MAC-layer errors.

        This counter is only relevant if this apm report is based on
        a data source whose collection methodology is based on
        analyzing network traffic.

        Note that if the apmReportTables are inactive because no
        applications are enabled in the application directory, this
        value should be 0.

        Note that, unlike the dropEvents counter, this number is the
        exact number of frames dropped."
    ::= { apmReportControlEntry 12 }

apmReportControlOwner OBJECT-TYPE
    SYNTAX      OwnerString
    MAX-ACCESS  read-create

    STATUS      current
```

```
    DESCRIPTION
        "The entity that configured this entry and is
        therefore using the resources assigned to it."
    ::= { apmReportControlEntry 13 }

apmReportControlStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type of this apmReportControlEntry. If the value
        of this object is 'permanent', no objects in this row need to
        be writable."
    ::= { apmReportControlEntry 14 }

apmReportControlStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The status of this apmReportControlEntry.

        An entry may not exist in the active state unless all
        objects in the entry have an appropriate value. The only
        objects in the entry that may be modified while the entry is
        in the active state are apmReportControlRequestedSize and
        apmReportControlRequestedReports.

         If this object is not equal to active(1), all
        associated entries in the apmReportTable shall be deleted
        by the agent."
    ::= { apmReportControlEntry 15 }

-- The APM Report Table

apmReportTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF ApmReportEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The data resulting from aggregated APM reports. Consult the
        definition of apmReportControlAggregationType for the
        definition of the various types of aggregations."
    ::= { apmMibObjects 10 }

apmReportEntry OBJECT-TYPE
    SYNTAX      ApmReportEntry
```

MAX-ACCESS not-accessible

STATUS current
DESCRIPTION
"A conceptual row in the apmReportTable.
The apmReportControlIndex value in the index identifies the
apmReportControlEntry on whose behalf this entry was created.
The apmReportIndex value in the index identifies which report
(in the series of reports) this
entry is a part of.
The apmAppDirAppLocalIndex value in the index identifies
the common application of the transactions aggregated in this
entry.
The apmAppDirResponsivenessType value in the index
identifies the type of responsiveness metric reported by
this entry and uniquely identifies this entry when more
than one responsiveness metric is measured for a flow.
Entries will only exist in this table for those
combinations of AppLocalIndex and ResponsivenessType
that are configured 'on(1)'.
The protocolDirLocalIndex value in the index identifies
the network layer protocol of the apmReportServerAddress.
When the associated apmReportControlAggregationType value is
equal to applications(4) or clients(2), this
protocolDirLocalIndex value will equal 0.
The apmReportServerAddress value in the index identifies the
network layer address of the server in transactions
aggregated
in this entry.
The apmNameClientID value in the index identifies the
client in transactions aggregated in this entry. If the
associated apmReportControlAggregationType is equal to
applications(4) or servers(3), then this protocolDirLocalIndex
value will equal 0.

An example of the indexing of this entry is
apmReportTransactionCount.3.15.3.1.8.4.192.168.1.2.3232235788

Note that some combinations of index values may result in an
index that exceeds 128 sub-identifiers in length which exceeds
the maximum for the SNMP protocol. Implementations should take
care to avoid such combinations."
INDEX { apmReportControlIndex, apmReportIndex,
apmAppDirAppLocalIndex,
apmAppDirResponsivenessType,
protocolDirLocalIndex, apmReportServerAddress,

```
        apmNameClientID }
  ::= { apmReportTable 1 }

ApmReportEntry ::= SEQUENCE {
  apmReportIndex
              Unsigned32,
  apmReportServerAddress         ProtocolDirNetworkAddress,



  apmReportTransactionCount       Unsigned32,
  apmReportSuccessfulTransactions Unsigned32,
  apmReportResponsivenessMean     Unsigned32,
  apmReportResponsivenessMin      Unsigned32,
  apmReportResponsivenessMax      Unsigned32,
  apmReportResponsivenessB1       Unsigned32,
  apmReportResponsivenessB2       Unsigned32,
  apmReportResponsivenessB3       Unsigned32,
  apmReportResponsivenessB4       Unsigned32,
  apmReportResponsivenessB5       Unsigned32,
  apmReportResponsivenessB6       Unsigned32,
  apmReportResponsivenessB7       Unsigned32
}

apmReportIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The value of apmReportControlReportNumber for the report to
     which this entry belongs."
  ::= { apmReportEntry 1 }

apmReportServerAddress OBJECT-TYPE
  SYNTAX
    ProtocolDirNetworkAddress
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network server address for this apmReportEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

     Since this object is an index variable, it is encoded in the
     index according to the index encoding rules.  For example, if
     the protocolDirLocalIndex indicates an encapsulation of ip,
```

```
      this object is encoded as a length octet of 4, followed by the
      4 octets of the ip address, in network byte order. Care
      should be taken to avoid values of this object that, in
      conjunction with the other index variables, would result in an
      index longer than SNMP's maximum of 128 subidentifiers.

      If the associated apmReportControlAggregationType is equal to
      applications(4) or clients(2), then this object will
 be a null
      string and will be encoded simply as a length octet of 0."
  ::= { apmReportEntry 2 }



apmReportTransactionCount OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of transactions aggregated into this record."
  ::= { apmReportEntry 3 }

apmReportSuccessfulTransactions OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of successful transactions aggregated into
     this record."
  ::= { apmReportEntry 4 }

apmReportResponsivenessMean OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The arithmetic mean of the responsiveness metrics for all
     successful transactions aggregated into this record."
  ::= { apmReportEntry 5 }

apmReportResponsivenessMin OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS
   current
  DESCRIPTION
     "The minimum of the responsiveness metrics for all
```

```
      successful transactions aggregated into this record."
   ::= { apmReportEntry 6 }

apmReportResponsivenessMax OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The maximum of the responsiveness metrics for all
      successful transactions aggregated into this record."
   ::= { apmReportEntry 7 }

-- Note that when updating a report entry, a transaction will not be
-- counted in more than 1 bucket in an entry. It will be counted in
-- the first bucket that matches, starting with Bucket 1 (B1). Note
-- that if a transaction matches 2 application types, it will update



-- one bucket in each of 2 entries in this table.

apmReportResponsivenessB1 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of successful transactions aggregated into this
      record
  whose responsiveness was less than boundary1 value for
      this application."
   ::= { apmReportEntry 8 }

apmReportResponsivenessB2 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of successful transactions aggregated into this
      record whose responsiveness did not fall into Bucket 1 and was
      greater than or equal to the boundary1 value for this
      application and less than the boundary2 value for this
      application."
   ::= { apmReportEntry 9 }

apmReportResponsivenessB3 OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
```

```
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Bucket 1 or 2
     and as greater than or equal to the boundary2 value for this
     application and less than the boundary3 value for this
     application."
  ::= { apmReportEntry
 10 }

apmReportResponsivenessB4 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 3 and was greater than or equal to the boundary3 value
     for this application and less than the boundary4 value for
     this application."
  ::= { apmReportEntry 11 }




apmReportResponsivenessB5 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 4 and was greater than or equal to the boundary4 value
     for this application and less than the boundary5 value for
     this application."
  ::= { apmReportEntry 12 }

apmReportResponsivenessB6 OBJECT-TYPE
  SYNTAX      Unsigned32
   MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 5 and was greater than or equal to the
     boundary5 value for this application and less than the
     boundary6 value for this application."
  ::= { apmReportEntry 13 }
```

```
apmReportResponsivenessB7 OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of successful transactions aggregated into this
     record whose responsiveness did not fall into Buckets 1
     through 6 and was greater than or equal to the boundary6 value
     for this application."
  ::= { apmReportEntry 14 }

-- APM Transaction Table

apmTransactionTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ApmTransactionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains transactions
 that are currently running
     or have recently finished."
  ::= { apmMibObjects 11 }

apmTransactionEntry OBJECT-TYPE
  SYNTAX      ApmTransactionEntry



  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the apmTransactionTable.

     The apmAppDirAppLocalIndex value in the index identifies
     the application of the transaction represented by this entry.
     The apmAppDirResponsivenessType value in the index
     identifies the type of responsiveness metric reported by
     this entry and uniquely identifies this entry when more
     than one responsiveness metric is measured for a flow.
     Entries will only exist in this table for those
     combinations of AppLocalIndex and ResponsivenessType
     that are configured 'on(1)'.
     The protocolDirLocalIndex value in the index identifies
     the network layer protocol of the apmTransactionServerAddress.
     The apmTransactionServerAddress
 value in the index identifies
     the network layer address of the server in the transaction
     represented by this entry.
```

```
      The apmNameClientID value in the index identifies the
      client in the transaction represented by this entry.

      An example of the indexing of this entry is
      apmTransactionCount.3.1.8.4.192.168.1.2.3232235788.2987

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length which exceeds
      the maximum for the SNMP protocol. Implementations should take
      care to avoid such combinations."
    INDEX { apmAppDirAppLocalIndex,
            apmAppDirResponsivenessType,
            protocolDirLocalIndex, apmTransactionServerAddress,
            apmNameClientID, apmTransactionID }
    ::= { apmTransactionTable 1 }

ApmTransactionEntry ::= SEQUENCE {
    apmTransactionServerAddress      ProtocolDirNetworkAddress,
    apmTransactionID
   Unsigned32,
    apmTransactionResponsiveness     Unsigned32,
    apmTransactionAge                TimeInterval,
    apmTransactionSuccess            TruthValue
}

apmTransactionServerAddress OBJECT-TYPE
    SYNTAX      ProtocolDirNetworkAddress (SIZE (1..255))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION



      "The network server address for this apmTransactionEntry.

      This is represented as an octet string with specific semantics
      and length as identified by the protocolDirLocalIndex
      component of the index. This object may not be the zero length
      string.

      For example, if the protocolDirLocalIndex indicates an
      encapsulation of ip, this object is encoded as a length octet
      of 4, followed by the 4 octets of the ip address, in network
      byte order. Care should be taken to avoid values of this
      object that, in conjunction with the other index variables,
      would result in an index longer than
   SNMP's maximum of 128
      subidentifiers."
```

```
  ::= { apmTransactionEntry 1 }

apmTransactionID OBJECT-TYPE
  SYNTAX      Unsigned32 (0..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A unique value for this transaction amongst other
     transactions sharing the same application layer protocol and
     server and client addresses. Implementations may choose to use
     the value of the client's source port, when possible."
  ::= { apmTransactionEntry 2 }

apmTransactionResponsiveness OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The current value of the responsiveness metric for this
     transaction. If this transaction has completed, the final
     value of the metric will be available.

     Note that this value may change over the lifetime of the
     transaction and it is the final value of this metric that is
     recorded as the responsiveness
 of the transaction for use in
     other APM MIB functions."
  ::= { apmTransactionEntry 3 }

apmTransactionAge OBJECT-TYPE
  SYNTAX      TimeInterval
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "If this transaction is still executing, this value shall be




     the length of time since it was started. If it has completed,
     this value shall be the length of time it was executing."
  ::= { apmTransactionEntry 4 }

apmTransactionSuccess OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The success of this transaction up to this time. Once a
```

transaction has been marked as failed, it cannot move back
into the successful state."
::= { apmTransactionEntry 5 }

apmTransactionsRequestedHistorySize OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The maximum number of completed transactions
desired to be
retained in the apmTransactionTable. If the agent doesn't have
enough resources to retain this many, it will retain as many as
possible. Regardless of this value, the agent must attempt to
keep records for all current transactions it is monitoring.

The value of this object must persist across reboots."
::= { apmMibObjects 12 }

-- The APM Exception table
-- The APM Exception Table creates filters so that a management
-- station can get immediate notification of a transaction that has
-- had poor availability or responsiveness.
--
-- This function is particularly helpful in unaggregated situations
-- where the numbers of agents is relatively high and the transaction
-- rate per agent is relatively low (such as agents for desktops or
-- dedicated to small workgroups). Polling agents in such an
-- environment would either cause scalability problems (high rate) or
-- lead to long notification delays (low rate).

apmExceptionTable
OBJECT-TYPE
SYNTAX SEQUENCE OF ApmExceptionEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table creates filters so that a management station can
get immediate notification of a transaction that has had poor

availability or responsiveness.

Each apmExceptionEntry is associated with a particular type of
transaction and is applied to all transactions of that
type. Multiple apmExceptionEntries may be associated with a

```
      particular type of transaction. A transaction type is
      identified by the value of the apmAppDirAppLocalIndex
      component of the index.

      Because the quality of a transaction is not known until it is
      completed, these thresholds are only applied after the
      transaction has completed."
  ::= { apmMibObjects 13 }

apmExceptionEntry OBJECT-TYPE
  SYNTAX      ApmExceptionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the apmExceptionTable.

      The apmAppDirAppLocalIndex value in the index identifies
      the application this entry will monitor.
      The apmAppDirResponsivenessType value in the index
      identifies the type of responsiveness metric this entry will
      monitor."

  INDEX { apmAppDirAppLocalIndex,
          apmAppDirResponsivenessType, apmExceptionIndex }
  ::= { apmExceptionTable 1 }

ApmExceptionEntry ::= SEQUENCE {
  apmExceptionIndex                    Unsigned32,
  apmExceptionResponsivenessComparison    INTEGER,
  apmExceptionResponsivenessThreshold     Unsigned32,
  apmExceptionUnsuccessfulException       INTEGER,
  apmExceptionResponsivenessEvents        Counter32,
  apmExceptionUnsuccessfulEvents          Counter32,
  apmExceptionOwner                    OwnerString,
  apmExceptionStorageType                 StorageType,
  apmExceptionStatus                   RowStatus
}

apmExceptionIndex
 OBJECT-TYPE
  SYNTAX      Unsigned32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION



      "An index that uniquely identifies an entry in the
```

```
      apmExceptionTable amongst other entries with equivalent index
      values for apmAppDirAppLocalIndex and
      apmAppDirResponsivenessType. Each such entry sets up
      thresholds for a particular measurement of a particular
      application."
    ::= { apmExceptionEntry 1 }

apmExceptionResponsivenessComparison OBJECT-TYPE
    SYNTAX      INTEGER {
                  none(1),
                  greater(2),
                  less(3)
                }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "If this value is greater(2) or less(3), the associated
      apmExceptionResponsivenessThreshold will be compared to this
      value and an exception will be created if the responsiveness
      is greater than the threshold (greater(2)) or less than the
       threshold (less(3))."
    ::= { apmExceptionEntry 2 }

apmExceptionResponsivenessThreshold OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The threshold that responsiveness metrics are compared to."
    ::= { apmExceptionEntry 3 }

apmExceptionUnsuccessfulException OBJECT-TYPE
    SYNTAX      INTEGER {
                  off(1),
                  on(2)
                }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "If this value is on(2), an exception will be created if a
      transaction of the associated type is unsuccessful."
    ::= { apmExceptionEntry 4 }

apmExceptionResponsivenessEvents OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
```

```
  DESCRIPTION
     "The total number of responsiveness exceptions generated. This
     counter will be incremented even if no notification was sent
     due to notifications not being
 configured or due to exceeding
     the apmNotificationMaxRate value."
  ::= { apmExceptionEntry 5 }

apmExceptionUnsuccessfulEvents OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The total number of unsuccessful exceptions generated. This
     counter will be incremented even if no notification was sent
     due to notifications not being configured or due to exceeding
     the apmNotificationMaxRate value."
  ::= { apmExceptionEntry 6 }

apmExceptionOwner OBJECT-TYPE
  SYNTAX      OwnerString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { apmExceptionEntry 7 }

apmExceptionStorageType OBJECT-TYPE
  SYNTAX     StorageType
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The storage type of this apmReportControlEntry. If the value

    of this object is 'permanent', no objects in this row need to
     be writable."
  ::= { apmExceptionEntry 8 }

apmExceptionStatus OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The status of this apmExceptionEntry. The only objects in the
     entry that may be modified while the entry is in the active
```

```
      state are apmExceptionResponsivenessComparison,
      apmExceptionResponsivenessThreshold and
      apmExceptionUnsuccessfulException."
  ::= { apmExceptionEntry 9 }



apmThroughputExceptionMinTime OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      "Because the responsiveness for throughput-oriented
      transactions is divided by the elapsed time, it can be very
      sensitive to short-term performance variations for
      transactions that take a short period of time. For example,
      when downloading
 a very short file, a single dropped packet
      could double or triple the total response time.

      Further, throughput is usually examined for applications that
      transfer a lot of data, and when doing so it is helpful to
      conceptualize transaction costs that are proportional to the
      amount of data separately from those costs that are relatively
      fixed (i.e., independent of the amount of data).  For very
      short transactions, these fixed transaction costs (handshake,
      setup time, authentication, round-trip time) may dominate the
      total response time for the transaction, resulting in
      throughput measurements that aren't really proportional to the
      network's, server's and client's combined data throughput
      capability.

      This object controls the minimum number of seconds that an
      throughput-based transaction must exceed before an exception
      can be generated for it. If this object is set
 to zero, then
      all throughput-based transactions are candidates for
      exceptions.

      The value of this object must persist across reboots."
  DEFVAL     { 10 }
  ::= { apmMibObjects 14 }

apmNotificationMaxRate OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-write
  STATUS      current
```

```
  DESCRIPTION
      "The maximum number of notifications that can be generated
      from this agent by the apmExceptionTable in any 60 second
      period.

      The value of this object must persist across reboots."
  DEFVAL { 1 }
  ::= { apmMibObjects 15 }




-- APM Notifications

apmNotifications OBJECT IDENTIFIER ::= { apm 0 }

apmTransactionResponsivenessAlarm NOTIFICATION-TYPE
  OBJECTS     { apmExceptionResponsivenessThreshold,
                apmTransactionResponsiveness }
  STATUS      current
  DESCRIPTION
      "Notification sent when a transaction exceeds a threshold
      defined in the apmException table. The index of the

      included apmExceptionResponsivenessThreshold object identifies
      the apmExceptionEntry that specified the threshold. The
      apmTransactionResponsiveness variable identifies the actual
      transaction and its responsiveness.

      Agent implementors are urged to include additional data
      objects in the alarm that may explain the reason for the
      alarm. It is helpful to include such data in the alarm because
      it describes the situation at the time the alarm was
      generated, where polls after the fact may not provide
      meaningful information. Examples of such information are CPU
      load, memory utilization, network utilization, and transaction
      statistics."
  ::= { apmNotifications 1 }

apmTransactionUnsuccessfulAlarm NOTIFICATION-TYPE
  OBJECTS     { apmExceptionResponsivenessThreshold }
  STATUS      current
  DESCRIPTION
      "Notification sent when a transaction is unsuccessful.
      The index of the included
 apmExceptionResponsivenessThreshold
      object identifies both the type of the transaction that caused
      this notification as well as the apmExceptionEntry that
```

```
      specified the threshold.

      Agent implementors are urged to include additional data
      objects in the alarm that may explain the reason for the
      alarm. It is helpful to include such data in the alarm because
      it describes the situation at the time the alarm was
      generated, where polls after the fact may not provide
      meaningful information. Examples of such information are CPU
      load, memory utilization, network utilization, and transaction
      statistics."
    ::= { apmNotifications 2 }

apmCompliance MODULE-COMPLIANCE
    STATUS  current



    DESCRIPTION
      "Describes the requirements for conformance to
      the APM MIB"
    MODULE  -- this module
      MANDATORY-GROUPS { apmAppDirGroup, apmReportGroup }

      GROUP apmUserDefinedApplicationsGroup
        DESCRIPTION
          "Implementation of the apmUserDefinedApplicationsGroup
          is optional."

      GROUP apmTransactionGroup
        DESCRIPTION
          "Implementation of the apmTransactionGroup is optional."

      GROUP apmExceptionGroup
        DESCRIPTION
          "Implementation of the apmExceptionGroup is optional."

      GROUP apmNotificationGroup
        DESCRIPTION
          "Implementation of the apmNotificationGroup is optional."

    ::= { apmCompliances 1 }

apmAppDirGroup OBJECT-GROUP
    OBJECTS { apmAppDirConfig,
              apmAppDirResponsivenessBoundary1,
              apmAppDirResponsivenessBoundary2,
              apmAppDirResponsivenessBoundary3,
              apmAppDirResponsivenessBoundary4,
```

```
            apmAppDirResponsivenessBoundary5,
            apmAppDirResponsivenessBoundary6,
            apmBucketBoundaryLastChange, apmAppDirID,
            apmNameMachineName, apmNameUserName }
    STATUS
   current
    DESCRIPTION
       "The APM MIB directory of applications and application verbs."
    ::=  { apmGroups 1 }

apmUserDefinedApplicationsGroup OBJECT-GROUP
    OBJECTS {     apmHttpFilterAppLocalIndex,
                  apmHttpFilterServerProtocol,
                  apmHttpFilterServerAddress, apmHttpFilterURLPath,
                  apmHttpFilterMatchType, apmHttpFilterOwner,
                  apmHttpFilterStorageType, apmHttpFilterRowStatus,
                  apmHttpIgnoreUnregisteredURLs, apmHttp4xxIsFailure,
                  apmUserDefinedAppParentIndex,




                  apmUserDefinedAppApplication }
    STATUS  current
    DESCRIPTION
       "Objects used for creating and managing user-defined
       applications."
    ::= { apmGroups 2 }

apmReportGroup OBJECT-GROUP
    OBJECTS { apmReportControlDataSource,
              apmReportControlAggregationType,
              apmReportControlInterval,
              apmReportControlRequestedSize,
              apmReportControlGrantedSize,
               apmReportControlRequestedReports,
              apmReportControlGrantedReports,
              apmReportControlStartTime,
              apmReportControlReportNumber,
              apmReportControlDeniedInserts,
              apmReportControlDroppedFrames,
              apmReportControlOwner,
              apmReportControlStorageType,
              apmReportControlStatus,
              apmReportTransactionCount,
              apmReportSuccessfulTransactions,
              apmReportResponsivenessMean,
              apmReportResponsivenessMin,
              apmReportResponsivenessMax,
```

```
            apmReportResponsivenessB1,
            apmReportResponsivenessB2,
            apmReportResponsivenessB3,
            apmReportResponsivenessB4,
            apmReportResponsivenessB5,
            apmReportResponsivenessB6,
            apmReportResponsivenessB7 }
    STATUS  current
    DESCRIPTION
        "The apm report group controls the creation
   and retrieval of
        reports that aggregate application performance."
    ::=  { apmGroups 3 }

apmTransactionGroup OBJECT-GROUP
    OBJECTS { apmTransactionResponsiveness,
              apmTransactionAge, apmTransactionSuccess,
              apmTransactionsRequestedHistorySize }
    STATUS  current
    DESCRIPTION
        "The apm transaction group contains statistics for
        individual transactions."



    ::=  { apmGroups 4 }

apmExceptionGroup OBJECT-GROUP
    OBJECTS { apmExceptionResponsivenessComparison,
              apmExceptionResponsivenessThreshold,
              apmExceptionUnsuccessfulException,
              apmExceptionResponsivenessEvents,
              apmExceptionUnsuccessfulEvents,
              apmExceptionOwner, apmExceptionStorageType,
              apmExceptionStatus, apmThroughputExceptionMinTime,
              apmNotificationMaxRate }
    STATUS  current
    DESCRIPTION
        "The apm exception group causes notifications to be sent
        whenever
   transactions are detected that had poor availability
        or responsiveness."
    ::=  { apmGroups 5 }

apmNotificationGroup NOTIFICATION-GROUP
    NOTIFICATIONS { apmTransactionResponsivenessAlarm,
                    apmTransactionUnsuccessfulAlarm }
    STATUS        current
```

```
  DESCRIPTION
     "Notifications sent by an APM MIB agent."
  ::= { apmGroups 6 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-MIB
No license file was found, but licenses were detected in source scan.

```
DOCS-IF-MIB DEFINITIONS ::= BEGIN

 IMPORTS
   MODULE-IDENTITY,
   OBJECT-TYPE,
   Unsigned32,
   Integer32,
   Counter32,
   Counter64,
   TimeTicks,
   IpAddress,
   transmission
         FROM SNMPv2-SMI        -- [RFC2578]
   TEXTUAL-CONVENTION,
   MacAddress,
   RowStatus,
   TruthValue,
   TimeInterval,
   TimeStamp,
   StorageType
         FROM SNMPv2-TC         -- [RFC2579]
   OBJECT-GROUP,

   MODULE-COMPLIANCE
         FROM SNMPv2-CONF       -- [RFC2580]
   ifIndex, InterfaceIndexOrZero
         FROM IF-MIB            -- [RFC2863]
   InetAddressType,
   InetAddress
         FROM INET-ADDRESS-MIB  -- [RFC4001]
   IANAifType
         FROM IANAifType-MIB;   -- [IANA]

docsIfMib MODULE-IDENTITY
   LAST-UPDATED    "200605240000Z" -- May 24, 2006
   ORGANIZATION    "IETF IPCDN Working Group"
   CONTACT-INFO
```

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Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
Co-chairs: Richard Woundy, Richard_Woundy@cable.comcast.com
Jean-Francois Mule, jf.mule@cablelabs.com"
DESCRIPTION
"This is the MIB Module for DOCSIS 2.0-compliant Radio

Frequency (RF) interfaces in Cable Modems and
Cable Modem Termination Systems.

Copyright (C) The Internet Society (2006). This
version of this MIB module is part of RFC 4546; see
the RFC itself for full legal notices."

REVISION "200605240000Z"
DESCRIPTION
"Revision of the IETF RF MIB module for DOCSIS 2.0.
This version published as RFC 4546.
This MIB module revision includes the following
among others:
Usage of ifType (205) for upstream logical channels.
Addition of downstream and upstream utilization
counters.
Additional statistics per upstream interface.
Upstream channel offline configuration mechanism.
Added MIB support for new DOCSIS 2.0 modulation
attributes.

```
        Euro-DOCSIS downstream interleave values.
        Adjustments to RFC 2670 definitions based on
        the MIB review guidelines from the IETF



        Operations and Management Area (OPS)."

    REVISION "199908190000Z"
    DESCRIPTION
       "Initial version, published as RFC 2670.
        Modified by Mike St. Johns to fix problems identified by
        the first pass of the MIB doctor.  Of special note,
        docsIfRangingResp and docsIfCmtsInsertionInterval were
        obsoleted and replaced by other objects with the same
        functionality, but with more appropriate syntax."
    ::= { transmission 127 }


-- Textual Conventions

TenthdBmV ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS       current
    DESCRIPTION
       "This data type represents power levels that are normally
        expressed in dBmV.  Units are in tenths of a dBmV;
        for example, 5.1 dBmV will be represented as 51."
    SYNTAX       Integer32

TenthdB ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d-1"
    STATUS       current
    DESCRIPTION
       "This data type represents power levels that are
 normally
        expressed in dB.  Units are in tenths of a dB;
        for example, 5.1 dB will be represented as 51."
    SYNTAX       Integer32

DocsisVersion ::= TEXTUAL-CONVENTION
   STATUS         current
   DESCRIPTION
      "Indicates the DOCSIS Radio Frequency specification being
       referenced.
       'docsis10' indicates DOCSIS 1.0.
       'docsis11' indicates DOCSIS 1.1.
       'docsis20' indicates DOCSIS 2.0."
```

```
  SYNTAX       INTEGER {
      docsis10 (1),
      docsis11 (2),
      docsis20 (3)
  }

DocsisQosVersion ::= TEXTUAL-CONVENTION




  STATUS         current
  DESCRIPTION
     "Indicates the referenced quality-of-service
      level.
      'docsis10 refers to DOCSIS 1.0 Class of
      Service queuing services, and 'docsis11' refers
      to DOCSIS 1.1 Quality of Service."
  SYNTAX       INTEGER {
     docsis10 (1),
     docsis11 (2)
  }

DocsisUpstreamType ::= TEXTUAL-CONVENTION
  STATUS         current
   DESCRIPTION
       "Indicates the DOCSIS Upstream Channel Type.
        'unknown' means information not available.
        'tdma' is related to TDMA, Time Division
        Multiple Access; 'atdma' is related to A-TDMA,
        Advanced Time Division Multiple Access,
        'scdma' is related to S-CDMA, Synchronous
        Code Division Multiple Access.
        'tdmaAndAtdma is related to simultaneous support of
        TDMA and A-TDMA modes."
  SYNTAX         INTEGER {
     unknown(0),
     tdma(1),
     atdma(2),
     scdma(3),
     tdmaAndAtdma(4)
  }

DocsEqualizerData ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
        "This data type represents the equalizer data
         as measured at the receiver interface.
         The format of the equalizer follows the structure of the
```

```
        Transmit Equalization Adjust RNG-RSP TLV of DOCSIS RFI
        v2.0 :
        1 byte Main tap location 1..(n + m)
         1 byte Number of forward taps per symbol
        1 byte Number of forward taps: n
        1 byte Number of reverse taps: m

        Following are the equalizer coefficients:
        First, forward taps coefficients:
        2 bytes F1 (real),  2 bytes  F1 (imag)




        ...
        2 bytes Fn (real),  2 bytes  Fn (imag)

        Then, reverse taps coefficients:
        2 bytes D1 (real),  2 bytes  D1 (imag)
        ...

        2 bytes Dm (real),  2 bytes  Dm (imag)

        The equalizer coefficients are considered signed 16-bit
        integers in the range from -32768 (0x8000) to 32767
        (0x7FFF).

        DOCSIS specifications require up to a maximum of
        64 equalizer taps (n + m); therefore, this object size
         can get up 260 bytes (4 + 4x64).
        The minimum object size (other than zero) for a t-spaced
        tap with a minimum of 8 symbols will be 36 (4 + 4x8)."
    REFERENCE

  "Data-Over-Cable Service Interface Specifications: Radio
      Frequency Interface Specification SP-RFIv2.0-I10-051209,
      Figure 8-23."
    SYNTAX       OCTET STRING(SIZE (0 | 36..260))


docsIfMibObjects  OBJECT IDENTIFIER ::= { docsIfMib 1 }
docsIfBaseObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 1 }
docsIfCmObjects   OBJECT IDENTIFIER ::= { docsIfMibObjects 2 }
docsIfCmtsObjects OBJECT IDENTIFIER ::= { docsIfMibObjects 3 }

--
-- BASE GROUP
--
```

```
--
-- The following table is implemented on both the Cable Modem
-- and the Cable Modem Termination System.  This table is
-- read only for the CM.
--

docsIfDownstreamChannelTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfDownstreamChannelEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table describes the attributes of downstream
       channels (frequency bands)."
   REFERENCE




       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface
 Specification SP-RFIv2.0-I10-051209,
        Tables 6-16, and 6-17."
   ::= { docsIfBaseObjects 1 }

docsIfDownstreamChannelEntry OBJECT-TYPE
   SYNTAX      DocsIfDownstreamChannelEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An entry provides a list of attributes for a single
       downstream channel.
       An entry in this table exists for each ifEntry with an
       ifType of docsCableDownstream(128)."
   INDEX { ifIndex }
   ::= { docsIfDownstreamChannelTable 1 }

DocsIfDownstreamChannelEntry ::= SEQUENCE {
       docsIfDownChannelId              Integer32,
       docsIfDownChannelFrequency       Integer32,
       docsIfDownChannelWidth           Integer32,
       docsIfDownChannelModulation      INTEGER,
       docsIfDownChannelInterleave      INTEGER,
       docsIfDownChannelPower           TenthdBmV,
       docsIfDownChannelAnnex           INTEGER,
       docsIfDownChannelStorageType
     StorageType
   }

docsIfDownChannelId OBJECT-TYPE
```

```
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Cable Modem Termination System identification of the
        downstream channel within this particular MAC interface.
        if the interface is down, the object returns the most
        current value.  If the downstream channel ID is unknown,
        this object returns a value of 0."
    ::= { docsIfDownstreamChannelEntry 1 }

docsIfDownChannelFrequency OBJECT-TYPE
    SYNTAX      Integer32 (0..1000000000)
    UNITS       "hertz"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The center of the downstream frequency associated with
        this channel.  This object will return the current tuner




        frequency.  If a CMTS provides IF output, this object
        will return 0, unless this CMTS is in control of the
        final downstream frequency.  See
 the associated
        compliance object for a description of valid frequencies
        that may be written to this object."

    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.3.3."
    ::= { docsIfDownstreamChannelEntry 2 }

docsIfDownChannelWidth OBJECT-TYPE
    SYNTAX      Integer32 (0..16000000)
    UNITS       "hertz"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The bandwidth of this downstream channel.  Most
        implementations are expected to support a channel width
        of 6 MHz (North America) and/or 8 MHz (Europe).  See the
        associated compliance object for a description of the
        valid channel widths for this object."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-17."

 ::= { docsIfDownstreamChannelEntry 3 }

docsIfDownChannelModulation OBJECT-TYPE
   SYNTAX      INTEGER {
      unknown(1),
      other(2),
      qam64(3),
      qam256(4)
   }
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The modulation type associated with this downstream
       channel.  If the interface is down, this object either
       returns the configured value (CMTS), the most current
       value (CM), or the value of unknown(1).  See the
       associated conformance object for write conditions and
       limitations.  See the reference for specifics on the
       modulation profiles implied by qam64 and qam256."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio




        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-17."
   ::= { docsIfDownstreamChannelEntry 4 }

docsIfDownChannelInterleave OBJECT-TYPE
   SYNTAX      INTEGER {
      unknown(1),
       other(2),
      taps8Increment16(3),
      taps16Increment8(4),
      taps32Increment4(5),
      taps64Increment2(6),
      taps128Increment1(7),
      taps12increment17(8)
   }
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The Forward Error Correction (FEC) interleaving used
       for this downstream channel.
       Values are defined as follows:
```

taps8Increment16(3): protection 5.9/4.1 usec,
latency .22/.15 msec
taps16Increment8(4): protection 12/8.2 usec,
latency .48/.33 msec
taps32Increment4(5): protection 24/16 usec,
latency .98/.68 msec
taps64Increment2(6): protection 47/33 usec,
latency 2/1.4 msec
taps128Increment1(7): protection 95/66 usec,
latency 4/2.8 msec
taps12increment17(8):
protection 18/14 usec,
latency 0.43/0.32 msec

The value 'taps12increment17' is supported by EuroDOCSIS cable systems only, and the others by DOCSIS cable systems.

If the interface is down, this object either returns the configured value (CMTS), the most current value (CM), or the value of unknown(1).
The value of other(2) is returned if the interleave is known but not defined in the above list.
See the associated conformance object for write conditions and limitations. See the reference for the FEC configuration described by the setting of this object."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209,

Table 6-15."
::= { docsIfDownstreamChannelEntry 5 }

docsIfDownChannelPower OBJECT-TYPE
SYNTAX TenthdBmV
UNITS
"dBmV"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"At the CMTS, the operational transmit power. At the CM, the received power level.
If the interface is down, this object either returns the configured value (CMTS), the most current value (CM) or the value of 0. See the associated conformance object for write conditions and limitations. See the reference for recommended and required power levels."

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-16, 6-17."
    ::= { docsIfDownstreamChannelEntry 6 }

docsIfDownChannelAnnex OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(1),
        other(2),
        annexA(3),
        annexB(4),
        annexC(5)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of this object indicates
 the conformance of
         the implementation to important regional cable standards.
         annexA : Annex A from ITU-T J.83 is used.
                  (equivalent to EN 300 429)
         annexB : Annex B from ITU-T J.83 is used.
         annexC : Annex C from ITU-T J.83 is used."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.3.1, and H.3.1."
    ::= { docsIfDownstreamChannelEntry 7 }

docsIfDownChannelStorageType OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-only




    STATUS       current
    DESCRIPTION
        "The storage type for this conceptual row.
         Entries with this object set to permanent(4)
         do not require write operations for read-write
         objects."
    ::= { docsIfDownstreamChannelEntry 8 }

--
-- The following table is implemented on both the CM and the CMTS.
-- For the CM, only attached channels
```

```
 appear in the table.  For the
-- CM, this table is read-only as well.
--

docsIfUpstreamChannelTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfUpstreamChannelEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table describes the attributes of attached upstream
       channels."
   ::= { docsIfBaseObjects 2 }

docsIfUpstreamChannelEntry OBJECT-TYPE
   SYNTAX      DocsIfUpstreamChannelEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "List of attributes for a single upstream channel.  For
       DOCSIS 2.0 CMTSs, an entry in this table exists for
       each ifEntry with an ifType of docsCableUpstreamChannel
       (205).
       For DOCSIS 1.x CM/CMTSs and DOCSIS 2.0 CMs, an entry in
       this table exists for each ifEntry with an ifType of
       docsCableUpstream (129).

       For DOCSIS 2.0 CMTSs, two classes of interfaces can be
       defined for this table:
        o Upstream Physical Interfaces: The traditional DOCSIS
          1.x CMTS upstream interface ifType 129 and the DOCSIS
          2.0 ifType 205 that are functional.  In other words,
          interfaces that represent upstream receivers within
          an RF MAC interface.
          Entries of physical interfaces are exposed to the
          management interface with their corresponding
          ifStack hierarchy and are not administratively
          created by this table.




        o Upstream Temporary Interfaces: A fictitious
          interface created for the purpose of manipulating
          physical interface parameters offline, then
          validating prior to updating the target physical
          interface.

       In case of a reinitialization of the managed system,
```

```
        physical interfaces values persist while the temporary
        interfaces are not recreated.

        This mechanism helps to minimize
 service disruptions
        originating in situations where a group of interface
        parameter values need to be consistent with each other
        in SET operations.  A temporary buffer
        (temporary interface) is provided to allow the CMTS
        to validate the parameters offline."
    INDEX { ifIndex }
    ::= { docsIfUpstreamChannelTable 1 }

DocsIfUpstreamChannelEntry ::= SEQUENCE {
        docsIfUpChannelId                   Integer32,
        docsIfUpChannelFrequency            Integer32,
        docsIfUpChannelWidth                Integer32,
        docsIfUpChannelModulationProfile    Unsigned32,
        docsIfUpChannelSlotSize             Unsigned32,
        docsIfUpChannelTxTimingOffset       Unsigned32,
        docsIfUpChannelRangingBackoffStart  Integer32,
        docsIfUpChannelRangingBackoffEnd    Integer32,
        docsIfUpChannelTxBackoffStart       Integer32,
        docsIfUpChannelTxBackoffEnd         Integer32,

       docsIfUpChannelScdmaActiveCodes      Unsigned32,
        docsIfUpChannelScdmaCodesPerSlot    Integer32,
        docsIfUpChannelScdmaFrameSize       Unsigned32,
        docsIfUpChannelScdmaHoppingSeed     Unsigned32,
        docsIfUpChannelType                 DocsisUpstreamType,
        docsIfUpChannelCloneFrom            InterfaceIndexOrZero,
        docsIfUpChannelUpdate               TruthValue,
        docsIfUpChannelStatus               RowStatus,
        docsIfUpChannelPreEqEnable          TruthValue
    }

docsIfUpChannelId OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The CMTS identification of the upstream channel."
    ::= { docsIfUpstreamChannelEntry 1 }



docsIfUpChannelFrequency OBJECT-TYPE
    SYNTAX      Integer32 (0..1000000000)
```

```
    UNITS       "hertz"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The center of the frequency
 band associated with this
        upstream interface.  This object returns 0 if the frequency
        is undefined or unknown.  Minimum permitted upstream
        frequency is 5,000,000 Hz for current technology.  See
        the associated conformance object for write conditions
        and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 4-2."
    ::= { docsIfUpstreamChannelEntry 2 }

docsIfUpChannelWidth OBJECT-TYPE
    SYNTAX      Integer32 (0..64000000)
    UNITS       "hertz"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The bandwidth of this upstream interface.  This object
        returns 0 if the interface width is undefined or unknown.
        Minimum permitted interface width is currently 200,000 Hz.
        See the associated conformance object for write conditions
        and limitations."
     REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-5."
    ::= { docsIfUpstreamChannelEntry 3 }

docsIfUpChannelModulationProfile OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "An entry identical to the docsIfModIndex in the
        docsIfCmtsModulationTable that describes this channel.
        This channel is further instantiated there by a grouping
        of interval usage codes (IUCs) that, together, fully
        describe the channel modulation.  This object returns 0 if
        the docsIfCmtsModulationTable entry does not exist or is
        empty.  See the associated conformance object for write
        conditions and limitations.
```

Setting this object returns an 'inconsistentValue'
error if the following conditions are not satisfied:
1. All the
IUC entries in the selected modulation profile
MUST have the same value of docsIfCmtsModChannelType.
2. All of the Modulation parameters in the selected
modulation profile MUST be consistent with the other
parameters in this docsIfUpstreamChannelEntry."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Table 8-19."
::= { docsIfUpstreamChannelEntry 4 }

docsIfUpChannelSlotSize OBJECT-TYPE
SYNTAX Unsigned32
UNITS "ticks"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Applicable to TDMA and ATDMA channel types only.
The number of 6.25 microsecond ticks in each upstream
mini-slot. Returns zero if the value is undefined or
unknown or in case of an SCDMA channel.
See the associated conformance object for write
conditions and limitations."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.1.2.4."
::= { docsIfUpstreamChannelEntry 5 }

docsIfUpChannelTxTimingOffset OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"At the CM, a measure of the current round trip time
obtained from the ranging offset (initial ranging offset +
ranging offset adjustments).
At the CMTS, the maximum of timing offset, among all the
CMs that are/were present on the channel, taking into
account all (initial + periodic) timing offset
corrections that were sent for each of the CMs. Generally,
these measurements are positive, but if the measurements
are negative, the value of this object is zero. Used for

```
        timing of CM upstream transmissions to ensure synchronized

       arrivals at the CMTS.
        Units are one 64th fraction of 6.25 microseconds."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.19."
    ::= { docsIfUpstreamChannelEntry 6 }

docsIfUpChannelRangingBackoffStart OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The initial random backoff window to use when retrying
        Ranging Requests.  Expressed as a power of 2.  A value of
        16 at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry
 7 }

docsIfUpChannelRangingBackoffEnd OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The final random backoff window to use when retrying
        Ranging Requests.  Expressed as a power of 2.  A value of
        16 at the CMTS indicates that a proprietary adaptive retry
        mechanism is to be used.  See the associated conformance
        object for write conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 8 }

docsIfUpChannelTxBackoffStart OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
```

```
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The initial random backoff window to use when retrying
         transmissions.  Expressed as a power of 2.  A value of 16

        at the CMTS indicates that a proprietary adaptive retry
         mechanism is to be used.  See the associated conformance
         object for write conditions and limitations."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 9 }

docsIfUpChannelTxBackoffEnd OBJECT-TYPE
    SYNTAX      Integer32 (0..16)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The final random backoff window to use when retrying
         transmissions.  Expressed as a power of 2.  A value of 16
         at the CMTS indicates that a proprietary adaptive retry
         mechanism is to be used.  See the associated conformance
         object for write conditions and limitations."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification
 SP-RFIv2.0-I10-051209,
         Section 8.3.4, and 9.4."
    ::= { docsIfUpstreamChannelEntry 10 }

docsIfUpChannelScdmaActiveCodes OBJECT-TYPE
    SYNTAX     Unsigned32 (0|64..66|68..70|72|74..78|80..82|84..88
                          |90..96|98..100|102|104..106|108
                          |110..112|114..126|128)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
        "Applicable for SCDMA channel types only.
         Number of active codes.  Returns zero for
         Non-SCDMA channel types.  Note that legal
         values from 64..128 MUST be non-prime."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.11.2.1."
    ::= { docsIfUpstreamChannelEntry 11 }

docsIfUpChannelScdmaCodesPerSlot OBJECT-TYPE
    SYNTAX      Integer32(0 | 2..32)
    UNITS       "codesperMinislots"
    MAX-ACCESS  read-create
    STATUS      current
     DESCRIPTION
        "Applicable for SCDMA channel types only.
        The number of SCDMA codes per mini-slot.
        Returns zero if the value is undefined or unknown or in




        case of a TDMA or ATDMA channel."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.11.2.1."
    ::= { docsIfUpstreamChannelEntry 12 }

docsIfUpChannelScdmaFrameSize OBJECT-TYPE
    SYNTAX      Unsigned32 (0..32)
    UNITS       "spreadIntervals"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Applicable for SCDMA channel types only.
        SCDMA Frame size in units of spreading intervals.
        This value returns zero for non-SCDMA Profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.12."
    ::= {
 docsIfUpstreamChannelEntry 13 }

docsIfUpChannelScdmaHoppingSeed OBJECT-TYPE
    SYNTAX     Unsigned32 (0..32767)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
        "Applicable for SCDMA channel types only.
        15-bit seed used for code hopping sequence initialization.
        Returns zero for non-SCDMA channel types.
        Setting this value to a value different than zero for
```

non-SCDMA channel types returns the error 'wrongValue'."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 6.2.14.1."
::= { docsIfUpstreamChannelEntry 14 }

docsIfUpChannelType OBJECT-TYPE
SYNTAX DocsisUpstreamType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Reflects the Upstream channel type.
This object returns the value of docsIfCmtsModChannelType
for the modulation profile selected
in
docsIfUpChannelModulationProfile for this row."
REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 6.2.1."
::= { docsIfUpstreamChannelEntry 15 }

docsIfUpChannelCloneFrom OBJECT-TYPE
SYNTAX InterfaceIndexOrZero
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains the ifIndex value of the physical
interface row entry whose parameters are to be adjusted.

Upon setting this object to the ifIndex value of a
physical interface, the following interface objects values
are copied to this entry:
docsIfUpChannelFrequency,
docsIfUpChannelWidth,
docsIfUpChannelModulationProfile,
docsIfUpChannelSlotSize,
docsIfUpChannelRangingBackoffStart,
docsIfUpChannelRangingBackoffEnd,
docsIfUpChannelTxBackoffStart,
docsIfUpChannelTxBackoffEnd,
docsIfUpChannelScdmaActiveCodes,
docsIfUpChannelScdmaCodesPerSlot,
docsIfUpChannelScdmaFrameSize,

docsIfUpChannelScdmaHoppingSeed,
docsIfUpChannelType, and
docsIfUpChannelPreEqEnable
Setting this object to the value of a non-existent or
a temporary upstream interface returns the error
'wrongValue'.
This object MUST contain a value of zero for physical
interfaces entries.
Setting this object in row entries that correspond to
physical interfaces returns the error 'wrongValue'."
::= { docsIfUpstreamChannelEntry 16 }

docsIfUpChannelUpdate OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Used to perform the copy of adjusted parameters from the
temporary interface entry to the physical interface
indicated by the docsIfUpChannelCloneFrom
object. The
transfer is initiated through an SNMP SET to 'true' of

this object.
A SET to 'true' fails and returns error 'commitFailed'
if docsIfUpChannelStatus value is 'notInService', which
means that the interface parameters values are not
compatible with each other or have not been validated yet.
Reading this object always returns 'false'."
::= { docsIfUpstreamChannelEntry 17 }

docsIfUpChannelStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object is only used for the creation of a temporary
upstream row with the purpose of updating the parameters
of a physical upstream channel entry.

The following restrictions apply to this object:
1. This object is not writable for physical interfaces.
2. Temporary interface entries are only created by a SET

of this object to createandWait(5).
3. ifAdminStatus from the Interface MIB RFC 2863 is used

to take a physical upstream channel offline, to be consistent with DOCSIS 1.x operation, as indicated in RFC 2670.
In addition,
o ifAdminStatus 'down' is reflected in this object as 'notInService'.
o ifOperStatus 'down' while ifAdminStatus 'up' is reflected in this object as 'notInservice'.
4. Temporary created rows MUST be set to 'active' with the purpose of validating upstream parameter consistency prior to transferring the parameters to the physical interface.

Below is a mandatory procedure for adjusting the values of a physical interface:
1. Create a temporary interface entry through an SNMP SET using 'createAndWait'. At this point, the RowStatus reports 'notReady'.
The Manager entity uses an ifIndex value outside the operational range of the physical interfaces for the creation of a temporary interface.
2. Set the docsIfUpChannelCloneFrom object to the ifIndex value of the physical row to update. Now docsIfUpChannelStatus reports 'notInService'.
3. Change the upstream parameters to the desired values in the temporary row.

4. Validate that all parameters are consistent by setting docsIfUpChannelStatus to 'active'. A failure to set the RowStatus to 'active' returns the error 'commitFailed', which means the parameters are not compatible with the target physical interface.
5. With docsIfUpChannelStatus 'active', transfer the parameters to the target physical interface by setting the object docsIfUpChannelUpdate to 'true'.
6. Delete the temporary
row by setting
docsIfUpChannelStatus to 'destroy'."
::= { docsIfUpstreamChannelEntry 18 }

docsIfUpChannelPreEqEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"At the CMTS, this object is used to enable or disable

```
        pre-equalization on the upstream channel represented by
        this table instance.  At the CM, this object is read-only
        and reflects the status of pre-equalization as represented
        in the RNG-RSP.  Pre-equalization is considered enabled at
        the CM if a RNG-RSP with pre-equalization data has been
        received at least once since the last mac
        reinitialization."
    DEFVAL {false}
    ::= { docsIfUpstreamChannelEntry 19 }

-- The following table describes the attributes of each class of
-- service.  The entries in this table are referenced from the
-- docsIfServiceEntries.  They exist as a separate table in order to
--
 reduce redundant information in docsIfServiceTable.
--
-- This table is implemented at both the CM and the CMTS.
-- The CM need only maintain entries for the classes of service
-- referenced by its docsIfCmServiceTable.
--

docsIfQosProfileTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfQosProfileEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes for each class of service."
    ::= { docsIfBaseObjects 3 }

docsIfQosProfileEntry OBJECT-TYPE
    SYNTAX      DocsIfQosProfileEntry




    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes for a single class of service.
        If implemented as read-create in the Cable Modem
        Termination System, creation of entries in this table is
        controlled by the value of
        docsIfCmtsQosProfilePermissions.

        If implemented as read-only, entries are created based
        on information in REG-REQ
 MAC messages received from
        cable modems (for Cable Modem Termination System), or
        based on information extracted from the TFTP option file
```

```
        (for Cable Modem).
        In the Cable Modem Termination System, read-only entries
        are removed if no longer referenced by
        docsIfCmtsServiceTable.

        An entry in this table MUST not be removed while it is
        referenced by an entry in docsIfCmServiceTable (Cable
        Modem) or docsIfCmtsServiceTable (Cable Modem Termination
        System).

        An entry in this table SHOULD NOT be changeable while
        it is referenced by an entry in docsIfCmtsServiceTable.

        If this table is created automatically, there SHOULD only
        be a single entry for each Class of Service.  Multiple
        entries with the same Class of Service parameters are NOT
        RECOMMENDED."
    INDEX { docsIfQosProfIndex }
    ::= { docsIfQosProfileTable 1 }

DocsIfQosProfileEntry
 ::= SEQUENCE {
        docsIfQosProfIndex              Integer32,
        docsIfQosProfPriority           Integer32,
        docsIfQosProfMaxUpBandwidth     Integer32,
        docsIfQosProfGuarUpBandwidth    Integer32,
        docsIfQosProfMaxDownBandwidth   Integer32,
        docsIfQosProfMaxTxBurst         Integer32,  -- deprecated
        docsIfQosProfBaselinePrivacy    TruthValue,
        docsIfQosProfStatus             RowStatus,
        docsIfQosProfMaxTransmitBurst   Integer32,
        docsIfQosProfStorageType        StorageType
    }

docsIfQosProfIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..16383)



    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The index value that uniquely identifies an entry
         in the docsIfQosProfileTable."
    ::= { docsIfQosProfileEntry 1 }

docsIfQosProfPriority OBJECT-TYPE
    SYNTAX      Integer32 (0..7)
```

```
    MAX-ACCESS  read-create
    STATUS      current

   DESCRIPTION
        "A relative priority assigned to this service when
        allocating bandwidth.  Zero indicates lowest priority
        and seven indicates highest priority.
        Interpretation of priority is device-specific.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 2 }

docsIfQosProfMaxUpBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum upstream bandwidth, in bits per second,
        allowed for a service with this service class.
        Zero if there is no restriction of upstream bandwidth.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service
  Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 3 }

docsIfQosProfGuarUpBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Minimum guaranteed upstream bandwidth, in bits per second,




        allowed for a service with this service class.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 4 }

docsIfQosProfMaxDownBandwidth OBJECT-TYPE
    SYNTAX      Integer32 (0..100000000)
    UNITS "bits per second"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum downstream bandwidth,
 in bits per second,
        allowed for a service with this service class.
        Zero if there is no restriction of downstream bandwidth.
        MUST NOT be changed while this row is active."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex C.1.1.4."

    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 5 }

docsIfQosProfMaxTxBurst OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    UNITS "mini-slots"
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "The maximum number of mini-slots that may be requested
        for a single upstream transmission.
        A value of zero means there is no limit.
        MUST NOT be changed while this row is active.
        This object has been deprecated and replaced by
        docsIfQosProfMaxTransmitBurst, to fix a mismatch
        of the units and value range with respect to
 the DOCSIS
        Maximum Upstream Channel Transmit Burst Configuration
        Setting."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        C.1.1.4."
    DEFVAL { 0 }
    ::= { docsIfQosProfileEntry 6 }
```

```
docsIfQosProfBaselinePrivacy OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "Indicates whether Baseline Privacy is enabled for this
       service class.
       MUST NOT be changed while this row is active."
   DEFVAL { false }
   ::= { docsIfQosProfileEntry 7 }

docsIfQosProfStatus OBJECT-TYPE
   SYNTAX      RowStatus
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "This is object is used to create or delete rows in
       this table.  This object MUST NOT be changed from active
       while the row is referenced by any entry in either
       docsIfCmServiceTable
 (on the CM) or
       docsIfCmtsServiceTable (on the CMTS)."
   ::= { docsIfQosProfileEntry 8 }

docsIfQosProfMaxTransmitBurst OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)
   UNITS       "bytes"
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The maximum number of bytes that may be requested for a
       single upstream transmission.  A value of zero means there
       is no limit.  Note: This value does not include any
       physical layer overhead.
       MUST NOT be changed while this row is active."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Annex C.1.1.4."
   DEFVAL { 0 }
   ::= { docsIfQosProfileEntry 9 }

docsIfQosProfStorageType OBJECT-TYPE
   SYNTAX      StorageType
   MAX-ACCESS   read-only
   STATUS      current
   DESCRIPTION
```

```
        "The storage type for this conceptual
 row.
        Entries with this object set to permanent(4)



        do not require write operations for writable
        objects."
    ::= { docsIfQosProfileEntry 10 }

docsIfSignalQualityTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfSignalQualityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "At the CM, describes the PHY signal quality of downstream
        channels.  At the CMTS, this object describes the PHY
        signal quality of upstream channels.  At the CMTS, this
        table MAY exclude contention intervals."
    ::= { docsIfBaseObjects 4 }

docsIfSignalQualityEntry OBJECT-TYPE
    SYNTAX      DocsIfSignalQualityEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "At the CM, this object describes the PHY characteristics of
        a downstream channel.  At the CMTS, it describes the PHY
        signal quality of an upstream channel.
        An entry in this table exists
 for each ifEntry with an
        ifType of docsCableDownstream(128) for Cable Modems.
        For DOCSIS 1.1 Cable Modem Termination Systems, an entry
        exists for each ifEntry with an ifType of
        docsCableUpstream (129).
        For DOCSIS 2.0 Cable Modem Termination Systems, an entry
        exists for each ifEntry with an ifType of
        docsCableUpstreamChannel (205)."
    INDEX { ifIndex }
    ::= { docsIfSignalQualityTable 1 }

DocsIfSignalQualityEntry ::= SEQUENCE {
        docsIfSigQIncludesContention  TruthValue,
        docsIfSigQUnerroreds          Counter32,
        docsIfSigQCorrecteds          Counter32,
        docsIfSigQUncorrectables      Counter32,
        docsIfSigQSignalNoise         TenthdB,
        docsIfSigQMicroreflections    Integer32,
```

```
        docsIfSigQEqualizationData    DocsEqualizerData,
        docsIfSigQExtUnerroreds       Counter64,
        docsIfSigQExtCorrecteds       Counter64,
        docsIfSigQExtUncorrectables
    Counter64
    }

docsIfSigQIncludesContention OBJECT-TYPE



    SYNTAX      TruthValue
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "true(1) if this CMTS includes contention intervals in
         the counters in this table.  Always false(2) for CMs."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.4.1"
    ::= { docsIfSignalQualityEntry 1 }

docsIfSigQUnerroreds OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel without error.
         This includes all codewords, whether or not they
         were part of frames destined for this device.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated
 by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 2 }

docsIfSigQCorrecteds OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "Codewords received on this channel with correctable
        errors.  This includes all codewords, whether or not
        they were part of frames destined for this device.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency
 Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.2.4, and 6.3.6."



    ::= { docsIfSignalQualityEntry 3 }

docsIfSigQUncorrectables OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with uncorrectable
        errors.  This includes all codewords, whether or not
        they were part of frames destined for this device.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 4 }

docsIfSigQSignalNoise OBJECT-TYPE
    SYNTAX      TenthdB
     UNITS       "TenthdB"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Signal/Noise ratio as perceived for this channel.
        At the CM, this object  describes the Signal/Noise of the
        downstream channel.  At the CMTS, it describes the
        average Signal/Noise of the upstream channel."
    REFERENCE
```

```
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 4-1 and 4-2"
    ::= { docsIfSignalQualityEntry 5 }

docsIfSigQMicroreflections OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    UNITS       "-dBc"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Microreflections, including in-channel response
         as perceived on this interface, measured in dBc below
         the signal level.
         This object is not assumed to return an absolutely
         accurate value, but it gives a rough indication




          of microreflections received on this interface.
         It is up to the implementer to provide information
         as accurately as possible."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 4-1 and 4-2"
    ::= { docsIfSignalQualityEntry 6 }

docsIfSigQEqualizationData OBJECT-TYPE
      SYNTAX      DocsEqualizerData
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
          "At the CM, this object returns the equalization data for
           the downstream channel.

           At the CMTS, this object is not applicable and is not
           instantiated.  Note that previous CMTS implementations
           may instantiate this object in two ways:
           - An equalization value indicating an equalization
             average for the upstream channel.  Those values have
             vendor-dependent
 interpretations.
           - Return a zero-length OCTET STRING to indicate that
             the value is unknown or if there is no equalization
             data available or defined."
      REFERENCE
          "DOCSIS Radio Frequency Interface Specification,
```

```
            Figure 6-23."
        ::= { docsIfSignalQualityEntry 7 }


docsIfSigQExtUnerroreds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel without error.
        This includes all codewords, whether or not they
        were part of frames destined for this device.
        This is the 64-bit version of docsIfSigQUnerroreds.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio




        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 8 }

docsIfSigQExtCorrecteds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with correctable
        errors.  This includes all codewords, whether or not
        they were part of frames destined for this device.
        This is the 64-bit version of docsIfSigQCorrecteds.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Sections 6.2.4, and 6.3.6."
    ::= { docsIfSignalQualityEntry 9 }

docsIfSigQExtUncorrectables OBJECT-TYPE
```

```
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received on this channel with uncorrectable
        errors.  This includes all codewords, whether or not
        they were part of frames destined for this device.
        This is the 64-bit version of docsIfSigQUncorrectables.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Sections 6.2.4, 6.3.6."
    ::= { docsIfSignalQualityEntry 10 }

--
-- DOCSIS Version of
 the device
--




docsIfDocsisBaseCapability OBJECT-TYPE
      SYNTAX      DocsisVersion
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
          "Indication of the DOCSIS capability of the device."
      REFERENCE
          "Data-Over-Cable Service Interface Specifications: Radio
          Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Annex G."
      ::= { docsIfBaseObjects 5 }

--
-- CABLE MODEM GROUP
--

--
-- The CM MAC Table
--

docsIfCmMacTable OBJECT-TYPE
```

```
   SYNTAX      SEQUENCE OF DocsIfCmMacEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Describes the attributes of each CM MAC interface,
       extending the information available from ifEntry."
   ::= { docsIfCmObjects 1 }

docsIfCmMacEntry OBJECT-TYPE
   SYNTAX      DocsIfCmMacEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An entry containing objects describing attributes
 of
       each MAC entry, extending the information in ifEntry.
       An entry in this table exists for each ifEntry with an
       ifType of docsCableMaclayer(127)."
   INDEX { ifIndex }
   ::= { docsIfCmMacTable 1 }

DocsIfCmMacEntry ::= SEQUENCE {
       docsIfCmCmtsAddress          MacAddress,
       docsIfCmCapabilities         BITS,
       docsIfCmRangingRespTimeout   TimeTicks,
       docsIfCmRangingTimeout       TimeInterval
    }




docsIfCmCmtsAddress OBJECT-TYPE
   SYNTAX      MacAddress
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Identifies the CMTS that is believed to control this MAC
       domain.  At the CM, this will be the source address from
       SYNC, MAP, and other MAC-layer messages.  If the CMTS is
       unknown, returns 00-00-00-00-00-00."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.2.2."
   ::= { docsIfCmMacEntry 1 }

docsIfCmCapabilities OBJECT-TYPE
   SYNTAX      BITS {
```

```
        atmCells(0),
        concatenation(1)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Identifies the capabilities of the MAC implementation
         at this interface.  Note that packet transmission is
         always supported.  Therefore, there is no specific bit
         required to explicitly indicate this capability.
         Note that BITS objects are encoded most significant bit
         first.  For example, if bit 1 is set, the value of this
         object is the octet string '40'H."
    ::= { docsIfCmMacEntry 2 }

docsIfCmRangingRespTimeout OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-write
    STATUS      obsolete
    DESCRIPTION
        "Waiting time for a Ranging Response packet.
         This object has been obsoleted and replaced by
         docsIfCmRangingTimeout to correct
 the typing to
         TimeInterval."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.1.6."
    DEFVAL { 20 }
    ::= { docsIfCmMacEntry 3 }




docsIfCmRangingTimeout OBJECT-TYPE
    SYNTAX      TimeInterval
    UNITS       "HundredOfSeconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Waiting time for a Ranging Response packet.
         This object MUST NOT persist at reinitialization
         of the managed system."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.1.6, timer T3."
```

```
    DEFVAL { 20 }
    ::= { docsIfCmMacEntry 4 }

--
-- CM status table.
-- This table is implemented only at the CM.
--

docsIfCmStatusTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmStatusEntry
    MAX-ACCESS  not-accessible
     STATUS      current
    DESCRIPTION
        "This table maintains a number of status objects
         and counters for Cable Modems."
    ::= { docsIfCmObjects 2 }

docsIfCmStatusEntry OBJECT-TYPE
    SYNTAX      DocsIfCmStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A set of status objects and counters for a single MAC
         layer instance in Cable Modem.
         An entry in this table exists for each ifEntry with an
         ifType of docsCableMaclayer(127)."
    INDEX { ifIndex }
    ::= { docsIfCmStatusTable 1 }

DocsIfCmStatusEntry ::= SEQUENCE {
        docsIfCmStatusValue             INTEGER,
        docsIfCmStatusCode              OCTET STRING,
        docsIfCmStatusTxPower             TenthdBmV,
        docsIfCmStatusResets            Counter32,
        docsIfCmStatusLostSyncs           Counter32,



        docsIfCmStatusInvalidMaps         Counter32,
        docsIfCmStatusInvalidUcds
     Counter32,
        docsIfCmStatusInvalidRangingResponses   Counter32,
        docsIfCmStatusInvalidRegistrationResponses Counter32,
        docsIfCmStatusT1Timeouts          Counter32,
        docsIfCmStatusT2Timeouts          Counter32,
        docsIfCmStatusT3Timeouts          Counter32,
        docsIfCmStatusT4Timeouts          Counter32,
        docsIfCmStatusRangingAborteds     Counter32,
```

```
        docsIfCmStatusDocsisOperMode      DocsisQosVersion,
        docsIfCmStatusModulationType      DocsisUpstreamType,
        docsIfCmStatusEqualizationData    DocsEqualizerData,
        docsIfCmStatusUCCs                Counter32,
        docsIfCmStatusUCCFails            Counter32
    }

docsIfCmStatusValue OBJECT-TYPE
    SYNTAX      INTEGER {
        other(1),
        notReady(2),
        notSynchronized(3),
        phySynchronized(4),
        usParametersAcquired(5),
        rangingComplete(6),
        ipComplete(7),
        todEstablished(8),
        securityEstablished(9),
         paramTransferComplete(10),
        registrationComplete(11),
        operational(12),
        accessDenied(13)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current Cable Modem connectivity state, as specified
         in the RF Interface Specification.  Interpretations for
         state values 1-12 are clearly outlined in the SP-RFI
         reference given below.
         The state value accessDenied(13) indicates the CMTS has
         sent a Registration Aborted message to the CM.  The same
         state is reported as accessDenied(7) by the CMTS object
         docsIfCmtsCmStatusValue."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 11.2.
         Data-Over-Cable Service Interface Specifications:



         Operations Support System Interface Specification
         SP-OSSIv2.0-I09-050812,
 Section 6.3.4.2."
    ::= { docsIfCmStatusEntry 1 }

docsIfCmStatusCode OBJECT-TYPE
```

```
    SYNTAX      OCTET STRING (SIZE( 0 | 5 | 6 ))
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Status code for a Cable Modem as defined in the
        OSSI Specification.  The status code consists
        of a single character indicating error groups, followed
        by a two- or three-digit number indicating the status
        condition, followed by a decimal.
        An example of a returned value could be 'T101.0'.
        The zero-length OCTET STRING indicates no status code yet
        registered."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications:
        Operations Support System Interface Specification
        SP-OSSIv2.0-I09-050812, Annex D."
    ::= { docsIfCmStatusEntry 2 }


docsIfCmStatusTxPower OBJECT-TYPE
    SYNTAX      TenthdBmV
    UNITS       "TenthdBmV"
    MAX-ACCESS  read-only
    STATUS      current
     DESCRIPTION
        "The operational transmit power for the attached upstream
        channel."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.18."
    ::= { docsIfCmStatusEntry 3 }

docsIfCmStatusResets OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "resets"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM reset or initialized this
        interface.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other



        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
```

::= { docsIfCmStatusEntry 4 }

docsIfCmStatusLostSyncs OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of times the CM
lost synchronization with
the downstream channel.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.3.2."
::= { docsIfCmStatusEntry 5 }

docsIfCmStatusInvalidMaps OBJECT-TYPE
SYNTAX Counter32
UNITS "maps"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of times the CM received invalid MAP messages.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE

"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.3.4."
::= { docsIfCmStatusEntry 6 }

docsIfCmStatusInvalidUcds OBJECT-TYPE
SYNTAX Counter32
UNITS "messages"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of times the CM received invalid UCD messages.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of

```
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.3."
    ::= { docsIfCmStatusEntry 7 }

docsIfCmStatusInvalidRangingResponses OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
     STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid ranging response
        messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.6."
    ::= { docsIfCmStatusEntry 8 }

docsIfCmStatusInvalidRegistrationResponses OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "messages"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the CM received invalid registration
        response messages.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as
 indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.8."
    ::= { docsIfCmStatusEntry 9 }

docsIfCmStatusT1Timeouts OBJECT-TYPE
```

SYNTAX Counter32
UNITS "timeouts"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"Number of times counter T1 expired in the CM.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Figure 9-2."
::= { docsIfCmStatusEntry 10 }

docsIfCmStatusT2Timeouts OBJECT-TYPE
SYNTAX Counter32
UNITS "timeouts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of times counter T2 expired in the CM.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Figure 9-2."
::= { docsIfCmStatusEntry 11 }

docsIfCmStatusT3Timeouts OBJECT-TYPE
SYNTAX Counter32
UNITS "timeouts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of times counter T3 expired in the CM.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times
as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Figure 9-2."
    ::= { docsIfCmStatusEntry 12 }

docsIfCmStatusT4Timeouts OBJECT-TYPE
    SYNTAX      Counter32



    UNITS       "timeouts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times counter T4 expired in the CM.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Figure 9-2."
    ::= { docsIfCmStatusEntry 13 }

docsIfCmStatusRangingAborteds
 OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "attempts"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Number of times the ranging process was aborted
         by the CMTS.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 9.3.3."
    ::= { docsIfCmStatusEntry 14 }

docsIfCmStatusDocsisOperMode OBJECT-TYPE
    SYNTAX      DocsisQosVersion
    MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
        "Indication of whether the device has registered using 1.0
         Class of Service or 1.1 Quality of Service.
         An unregistered CM SHOULD indicate 'docsis11'
 for a
         docsIfDocsisBaseCapability value of DOCSIS 1.1/2.0.  An
         unregistered CM SHOULD indicate 'docsis10'  for a
         docsIfDocsisBaseCapability value of DOCSIS 1.0."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Annex G."



    ::= { docsIfCmStatusEntry 15 }

docsIfCmStatusModulationType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Indicates modulation type status currently used by the
         CM.  Since this object specifically identifies PHY mode,
         the shared upstream channel type is not permitted."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.1."

    ::= { docsIfCmStatusEntry 16 }

docsIfCmStatusEqualizationData OBJECT-TYPE
    SYNTAX      DocsEqualizerData
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Pre-equalization data for this CM after convolution with
         data indicated in the RNG-RSP.  This data is valid when
         docsIfUpChannelPreEqEnable is set to true."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Figure 8-23."
    ::= { docsIfCmStatusEntry 17 }

docsIfCmStatusUCCs OBJECT-TYPE
```

```
    SYNTAX          Counter32
    UNITS           "attempts"
    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The number of successful Upstream Channel Change
        transactions.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmStatusEntry 18 }

docsIfCmStatusUCCFails OBJECT-TYPE
    SYNTAX          Counter32
    UNITS           "attempts"



    MAX-ACCESS      read-only
    STATUS          current
    DESCRIPTION
        "The number of failed Upstream Channel Change
        transactions.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmStatusEntry 19 }

--
-- The Cable Modem Service Table
--

docsIfCmServiceTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmServiceEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes of each upstream service queue
        on a CM."
    ::= { docsIfCmObjects 3 }

docsIfCmServiceEntry OBJECT-TYPE
    SYNTAX      DocsIfCmServiceEntry
    MAX-ACCESS  not-accessible
    STATUS
```

```
      current
    DESCRIPTION
        "Describes the attributes of an upstream bandwidth service
         queue.
         An entry in this table exists for each Service ID.
         The primary index is an ifIndex with an ifType of
         docsCableMaclayer(127)."
    INDEX { ifIndex, docsIfCmServiceId }
    ::= { docsIfCmServiceTable 1 }

DocsIfCmServiceEntry ::= SEQUENCE {
        docsIfCmServiceId              Integer32,
        docsIfCmServiceQosProfile      Integer32,
        docsIfCmServiceTxSlotsImmed    Counter32,
        docsIfCmServiceTxSlotsDed      Counter32,
        docsIfCmServiceTxRetries       Counter32,
        docsIfCmServiceTxExceededs     Counter32,
        docsIfCmServiceRqRetries       Counter32,
        docsIfCmServiceRqExceededs     Counter32,
        docsIfCmServiceExtTxSlotsImmed Counter64,
        docsIfCmServiceExtTxSlotsDed   Counter64




     }

docsIfCmServiceId OBJECT-TYPE
    SYNTAX      Integer32 (1..16383)
    MAX-ACCESS
  not-accessible
    STATUS      current
    DESCRIPTION
        "Identifies a service queue for upstream bandwidth.  The
         attributes of this service queue are shared between the
         CM and the CMTS.  The CMTS allocates upstream bandwidth
         to this service queue based on requests from the CM and
         on the class of service associated with this queue."
    ::= { docsIfCmServiceEntry 1 }

docsIfCmServiceQosProfile OBJECT-TYPE
    SYNTAX      Integer32 (0..16383)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The index in docsIfQosProfileTable describing the quality
         of service attributes associated with this particular
         service.  If no associated entry in docsIfQosProfileTable
         exists, this object returns a value of zero."
```

::= { docsIfCmServiceEntry 2 }

docsIfCmServiceTxSlotsImmed OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS
current
DESCRIPTION
"The number of upstream mini-slots that have been used to transmit data PDUs in immediate (contention) mode. This includes only those PDUs that are presumed to have arrived at the head-end (i.e., those that were explicitly acknowledged). It does not include retransmission attempts or mini-slots used by requests.
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 9.4."
::= { docsIfCmServiceEntry 3 }

docsIfCmServiceTxSlotsDed OBJECT-TYPE

SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS
current
DESCRIPTION
"The number of upstream mini-slots that have been used to transmit data PDUs in dedicated mode (i.e., as a result of a unicast Data Grant).
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio Frequency Interface Specification SP-RFIv2.0-I10-051209, Section 9.4."
::= { docsIfCmServiceEntry 4 }

```
docsIfCmServiceTxRetries OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "attempts"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of attempts to transmit data PDUs containing
       requests for acknowledgment that did not result in
       acknowledgment.
       Discontinuities in the value of
 this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 9.4."
   ::= { docsIfCmServiceEntry 5 }

docsIfCmServiceTxExceededs OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "attempts"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The number of data PDU transmission failures due to
       excessive retries without acknowledgment.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of




       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications:
 Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 9.4."
   ::= { docsIfCmServiceEntry 6 }

docsIfCmServiceRqRetries OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "attempts"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
```

"The number of attempts to transmit bandwidth requests
that did not result in acknowledgment.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 9.4."
::= { docsIfCmServiceEntry 7 }

docsIfCmServiceRqExceededs OBJECT-TYPE
SYNTAX Counter32
UNITS "attempts"
MAX-ACCESS read-only
STATUS
current
DESCRIPTION
"The number of requests for bandwidth that failed due to
excessive retries without acknowledgment.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 9.4."
::= { docsIfCmServiceEntry 8 }

docsIfCmServiceExtTxSlotsImmed OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"The number of upstream mini-slots that have been used to
transmit data PDUs in immediate (contention) mode. This
includes only those PDUs that are presumed to have
arrived at the head-end
(i.e., those that were explicitly
acknowledged). It does not include retransmission attempts
or mini-slots used by requests.
Discontinuities in the value of this counter can occur

```
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 9 }

docsIfCmServiceExtTxSlotsDed OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of upstream mini-slots that have been used to
        transmit data PDUs in dedicated mode (i.e., as a result
        of a unicast Data Grant).
        Discontinuities in the value of this counter can occur

        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.4."
    ::= { docsIfCmServiceEntry 10 }

--
-- CMTS GROUP
--

--
-- The CMTS MAC Table
--

docsIfCmtsMacTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsMacEntry
    MAX-ACCESS  not-accessible
    STATUS      current



    DESCRIPTION
        "Describes the attributes of each CMTS MAC interface,
        extending the information available from ifEntry.
        Mandatory for all CMTS devices."
```

```
    ::= { docsIfCmtsObjects 1 }

docsIfCmtsMacEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsMacEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry containing objects describing attributes of each
         MAC entry, extending the information in ifEntry.
        An entry in this table exists for each ifEntry with an
        ifType of docsCableMaclayer(127)."
    INDEX { ifIndex }
    ::= { docsIfCmtsMacTable 1 }

DocsIfCmtsMacEntry ::= SEQUENCE {
        docsIfCmtsCapabilities            BITS,
        docsIfCmtsSyncInterval            Integer32,
        docsIfCmtsUcdInterval             Integer32,
        docsIfCmtsMaxServiceIds           Integer32,
        docsIfCmtsInsertionInterval       TimeTicks,   -- Obsolete
        docsIfCmtsInvitedRangingAttempts  Integer32,
        docsIfCmtsInsertInterval          TimeInterval,
        docsIfCmtsMacStorageType          StorageType
    }

docsIfCmtsCapabilities OBJECT-TYPE
    SYNTAX      BITS {
        atmCells(0),
        concatenation(1)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Identifies the capabilities of the CMTS MAC
         implementation at this interface.  Note
 that packet
         transmission is always supported.  Therefore, there
         is no specific bit required to explicitly indicate
         this capability.
         Note that BITS objects are encoded most significant bit
         first.  For example, if bit 1 is set, the value of this
         object is the octet string '40'H."
    ::= { docsIfCmtsMacEntry 1 }

docsIfCmtsSyncInterval OBJECT-TYPE
```

```
    SYNTAX      Integer32 (1..200)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The interval between CMTS transmission of successive SYNC
        messages at this interface."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3."
    ::= { docsIfCmtsMacEntry 2 }

docsIfCmtsUcdInterval OBJECT-TYPE
    SYNTAX      Integer32 (1..2000)
    UNITS       "Milliseconds"
    MAX-ACCESS  read-write

   STATUS      current
    DESCRIPTION
        "The interval between CMTS transmission of successive
        Upstream Channel Descriptor messages for each upstream
        channel at this interface."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3"
    ::= { docsIfCmtsMacEntry 3 }

docsIfCmtsMaxServiceIds OBJECT-TYPE
    SYNTAX     Integer32 (1..16383)
    UNITS      "SIDs"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The maximum number of service IDs that may be
        simultaneously active."
    ::= { docsIfCmtsMacEntry 4 }

docsIfCmtsInsertionInterval OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-write
    STATUS      obsolete
    DESCRIPTION
        "The amount of time to elapse between each broadcast
        initial maintenance grant.  Broadcast initial maintenance
        grants are used to allow
```

```
 new cable modems to join the
        network.  Zero indicates that a vendor-specific algorithm
        is used instead of a fixed time.  The maximum amount of




        time permitted by the specification is 2 seconds.
        This object has been obsoleted and replaced by
        docsIfCmtsInsertInterval to fix a SYNTAX typing problem."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex B."
    ::= { docsIfCmtsMacEntry 5 }

docsIfCmtsInvitedRangingAttempts OBJECT-TYPE
    SYNTAX      Integer32 (0..1024)
    UNITS      "attempts"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "The maximum number of attempts to make on invitations
        for ranging requests.  A value of zero means the system
        SHOULD attempt to range forever."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency
 Interface Specification SP-RFIv2.0-I10-051209,
        Section 9.3.3 and Annex B."
    ::= { docsIfCmtsMacEntry 6 }

docsIfCmtsInsertInterval OBJECT-TYPE
    SYNTAX      TimeInterval
    UNITS       "HundredOfSeconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "The amount of time to elapse between each broadcast
        initial maintenance grant.  Broadcast initial maintenance
        grants are used to allow new cable modems to join the
        network.  Zero indicates that a vendor-specific algorithm
        is used instead of a fixed time.  The maximum amount of
        time permitted by the specification is 2 seconds."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Annex B."
    ::= { docsIfCmtsMacEntry 7 }
```

```
docsIfCmtsMacStorageType OBJECT-TYPE
   SYNTAX       StorageType
   MAX-ACCESS   read-only
   STATUS
     current
   DESCRIPTION
      "The storage type for this conceptual row.



       Entries with this object set to permanent(4)
       do not require write operations for read-write
       objects."
   ::= { docsIfCmtsMacEntry 8 }

--
--
-- CMTS status table.
--

docsIfCmtsStatusTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsStatusEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "For the MAC layer, this group maintains a number of
       status objects and counters."
   ::= { docsIfCmtsObjects 2 }

docsIfCmtsStatusEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsStatusEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
     "Status entry for a single MAC layer.
       An entry in this table exists for each ifEntry with an
       ifType of docsCableMaclayer(127)."
   INDEX { ifIndex }
   ::= { docsIfCmtsStatusTable 1 }

DocsIfCmtsStatusEntry ::= SEQUENCE {
       docsIfCmtsStatusInvalidRangeReqs
       Counter32,
       docsIfCmtsStatusRangingAborteds         Counter32,
       docsIfCmtsStatusInvalidRegReqs          Counter32,
       docsIfCmtsStatusFailedRegReqs           Counter32,
       docsIfCmtsStatusInvalidDataReqs         Counter32,
```

```
      docsIfCmtsStatusT5Timeouts            Counter32
   }

docsIfCmtsStatusInvalidRangeReqs OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "messages"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "This object counts invalid RNG-REQ messages received on
       this interface.
       Discontinuities in the value of this counter can occur




       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 8.3.5."
   ::= { docsIfCmtsStatusEntry 1 }

docsIfCmtsStatusRangingAborteds OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "attempts"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "This object counts ranging attempts that were explicitly
       aborted by the CMTS.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 8.3.6."
   ::= { docsIfCmtsStatusEntry 2 }

docsIfCmtsStatusInvalidRegReqs OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "messages"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
```

"This object counts invalid REG-REQ messages
received on
this interface; that is, syntax, out of range parameters,
or erroneous requests.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.3.7."
::= { docsIfCmtsStatusEntry 3 }

docsIfCmtsStatusFailedRegReqs OBJECT-TYPE
SYNTAX Counter32

UNITS "attempts"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object counts failed registration attempts. Included
are docsIfCmtsStatusInvalidRegReqs, authentication, and
class of service failures.
Discontinuities in the value of this counter can occur
at reinitialization
of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.3.7."
::= { docsIfCmtsStatusEntry 4 }

docsIfCmtsStatusInvalidDataReqs OBJECT-TYPE
SYNTAX Counter32
UNITS "messages"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This object counts invalid data request messages
received on this interface.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of

```
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsStatusEntry 5 }

docsIfCmtsStatusT5Timeouts OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "timeouts"
     MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object counts the number of times counter T5
         expired on this interface.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Figure 9-2."
    ::= { docsIfCmtsStatusEntry 6 }



--
-- CM status table (within CMTS).
-- This table is implemented only at the CMTS.
-- It contains per-CM status information available in the CMTS.
--

docsIfCmtsCmStatusTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsCmStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A set of objects in the CMTS, maintained for each
         cable modem connected to this CMTS."
    ::= { docsIfCmtsObjects 3 }

docsIfCmtsCmStatusEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsCmStatusEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Status information for a single cable modem.
         An entry in this table exists for each cable modem
         that is connected to the CMTS implementing this table."
    INDEX { docsIfCmtsCmStatusIndex }
    ::= { docsIfCmtsCmStatusTable 1 }
```

```
DocsIfCmtsCmStatusEntry ::= SEQUENCE {
      docsIfCmtsCmStatusIndex             Integer32,
      docsIfCmtsCmStatusMacAddress        MacAddress,
      docsIfCmtsCmStatusIpAddress         IpAddress, -- deprecated
      docsIfCmtsCmStatusDownChannelIfIndex  InterfaceIndexOrZero,
      docsIfCmtsCmStatusUpChannelIfIndex    InterfaceIndexOrZero,
      docsIfCmtsCmStatusRxPower           TenthdBmV,
      docsIfCmtsCmStatusTimingOffset      Unsigned32,
      docsIfCmtsCmStatusEqualizationData
   DocsEqualizerData,
      docsIfCmtsCmStatusValue             INTEGER,
      docsIfCmtsCmStatusUnerroreds        Counter32,
      docsIfCmtsCmStatusCorrecteds        Counter32,
      docsIfCmtsCmStatusUncorrectables    Counter32,
      docsIfCmtsCmStatusSignalNoise       TenthdB,
      docsIfCmtsCmStatusMicroreflections  Integer32,
      docsIfCmtsCmStatusExtUnerroreds     Counter64,
      docsIfCmtsCmStatusExtCorrecteds     Counter64,
      docsIfCmtsCmStatusExtUncorrectables Counter64,
      docsIfCmtsCmStatusDocsisRegMode     DocsisQosVersion,
      docsIfCmtsCmStatusModulationType    DocsisUpstreamType,
      docsIfCmtsCmStatusInetAddressType   InetAddressType,
      docsIfCmtsCmStatusInetAddress       InetAddress,



      docsIfCmtsCmStatusValueLastUpdate   TimeStamp,
      docsIfCmtsCmStatusHighResolutionTimingOffset Unsigned32
   }

docsIfCmtsCmStatusIndex OBJECT-TYPE
   SYNTAX
   Integer32 (1..2147483647)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Index value to uniquely identify an entry in this table.
       For an individual cable modem, this index value SHOULD
       NOT change during CMTS uptime."
   ::= { docsIfCmtsCmStatusEntry 1 }

docsIfCmtsCmStatusMacAddress OBJECT-TYPE
   SYNTAX      MacAddress
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "MAC address of the cable modem.  If the cable modem has
```

multiple MAC addresses, this is the MAC address associated
with the Cable interface."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 8.2.2."
::= { docsIfCmtsCmStatusEntry 2 }

docsIfCmtsCmStatusIpAddress OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"IP address
of this cable modem. If the cable modem has no
IP address assigned, or the IP address is unknown, this
object returns a value of 0.0.0.0. If the cable modem has
multiple IP addresses, this object returns the IP address
associated with the Cable interface.
This object has been deprecated and replaced by
docsIfCmtsCmStatusInetAddressType and
docsIfCmtsCmStatusInetAddress, to enable IPv6 addressing
in the future."
::= { docsIfCmtsCmStatusEntry 3 }

docsIfCmtsCmStatusDownChannelIfIndex OBJECT-TYPE
SYNTAX InterfaceIndexOrZero
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"IfIndex of the downstream channel that this CM is
connected to. If the downstream channel is unknown, this
object returns a value of zero."
::= { docsIfCmtsCmStatusEntry 4 }

docsIfCmtsCmStatusUpChannelIfIndex OBJECT-TYPE
SYNTAX InterfaceIndexOrZero
MAX-ACCESS
read-only
STATUS current
DESCRIPTION
"For DOCSIS 2.0, indicates the ifIndex of the logical
upstream channel (ifType 205) this CM is connected to.
For DOCSIS 1.x, indicates the ifIndex of the upstream
channel (ifType 129) this CM is connected to.

```
        If the upstream channel is unknown, this object
        returns a value of zero."
    ::= { docsIfCmtsCmStatusEntry 5 }

docsIfCmtsCmStatusRxPower OBJECT-TYPE
    SYNTAX      TenthdBmV
    UNITS       "ThenthdBmV"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The receive power as perceived for upstream data from
        this cable modem.
        If the receive power is unknown, this object returns
        a value of zero."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.18."
    ::= { docsIfCmtsCmStatusEntry 6
 }

docsIfCmtsCmStatusTimingOffset OBJECT-TYPE
    SYNTAX      Unsigned32 (0..4294967295)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A measure of the current round trip time for this CM.
        Used for timing of CM upstream transmissions to ensure
        synchronized arrivals at the CMTS.  Units are in terms
        of (6.25 microseconds/64).  Returns zero if the value
        is unknown.
        For channels requiring finer resolution, please refer to
        object docsIfCmtsCmStatusHighResolutionTimingOffset."
    REFERENCE




        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.17."
    ::= { docsIfCmtsCmStatusEntry 7 }

docsIfCmtsCmStatusEqualizationData OBJECT-TYPE
    SYNTAX      DocsEqualizerData
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Equalization data for this CM, as measured by the CMTS.
```

```
        Returns the zero-length OCTET STRING if the value is
        unknown or if there is no equalization data available
        or defined."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Figure 8-23."
    ::= { docsIfCmtsCmStatusEntry 8 }

docsIfCmtsCmStatusValue OBJECT-TYPE
    SYNTAX      INTEGER {
        other(1),
        ranging(2),
        rangingAborted(3),
        rangingComplete(4),
        ipComplete(5),
        registrationComplete(6),
        accessDenied(7),
        operational(8),
        -- value 8 should not be used
        registeredBPIInitializing(9)
    }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current cable modem connectivity state, as specified
        in the RF Interface Specification.  Returned status
        information is the CM status, as assumed by the CMTS,
        and indicates
 the following events:
        other(1)
          Any state other than below.
        ranging(2)
          The CMTS has received an Initial Ranging Request
          message from the CM, and the ranging process is not
          yet complete.
        rangingAborted(3)
          The CMTS has sent a Ranging Abort message to the CM.



        rangingComplete(4)
          The CMTS has sent a Ranging Complete message to the CM.
        ipComplete(5)
          The CMTS has received a DHCP reply message and
          forwarded it to the CM.
        registrationComplete(6)
          The CMTS has sent a Registration Response message to
```

the CM.
accessDenied(7)
The CMTS has sent a Registration Aborted message
to the CM.
operational(8)
Value 8 is considered reserved and should not be defined
in future revisions of this MIB module to avoid conflict
with documented
implementations that support value 8 to
indicate operational state after completing the BPI
initialization process.
registeredBPIInitializing(9)
Baseline Privacy (BPI) is enabled and the CMTS is in the
process of completing BPI initialization. This state
MAY last for a significant length of time if failures
occur during the initialization process. After
completion of BPI initialization, the CMTS will report
registrationComplete(6).
The CMTS only needs to report states it is able to
detect."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 11.2."
::= { docsIfCmtsCmStatusEntry 9 }

docsIfCmtsCmStatusUnerroreds OBJECT-TYPE
SYNTAX Counter32
UNITS "codewords"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"Codewords received without error from this cable modem.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
REFERENCE
"Data-Over-Cable Service Interface Specifications: Radio
Frequency Interface Specification SP-RFIv2.0-I10-051209,
Section 6.2.4."
::= { docsIfCmtsCmStatusEntry 10 }

docsIfCmtsCmStatusCorrecteds OBJECT-TYPE
SYNTAX Counter32

```
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received with correctable errors from this
         cable modem.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime
  for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.4."
    ::= { docsIfCmtsCmStatusEntry 11 }

docsIfCmtsCmStatusUncorrectables OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received with uncorrectable errors from this
         cable modem.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Section 6.2.4."
    ::= { docsIfCmtsCmStatusEntry 12 }

docsIfCmtsCmStatusSignalNoise OBJECT-TYPE
     SYNTAX      TenthdB
    UNITS       "TenthdB"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Signal/Noise ratio as perceived for upstream data from
         this cable modem.
         If the Signal/Noise is unknown, this object returns
         a value of zero."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
```

```
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 4-1 and 4-2."
    ::= { docsIfCmtsCmStatusEntry 13 }

docsIfCmtsCmStatusMicroreflections OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    UNITS       "-dBc"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Total microreflections, including in-channel response
        as perceived on this interface, measured in dBc below
        the signal level.
        This object is not assumed to return an absolutely
        accurate value, but it gives a rough indication
        of microreflections
 received on this interface.
        It is up to the implementer to provide information
        as accurately as possible.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 4-1 and 4-2"
    ::= { docsIfCmtsCmStatusEntry 14 }

docsIfCmtsCmStatusExtUnerroreds OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "codewords"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Codewords received without error from this cable modem.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the
 value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Section 6.2.5."
    ::= { docsIfCmtsCmStatusEntry 15 }
```

```
docsIfCmtsCmStatusExtCorrecteds OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "codewords"



   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Codewords received with correctable errors from this
       cable modem.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 6.2.5."
   ::= { docsIfCmtsCmStatusEntry
 16 }

docsIfCmtsCmStatusExtUncorrectables OBJECT-TYPE
   SYNTAX      Counter64
   UNITS       "codewords"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Codewords received with uncorrectable errors from this
       cable modem.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 6.2.5."
   ::= { docsIfCmtsCmStatusEntry 17 }

docsIfCmtsCmStatusDocsisRegMode OBJECT-TYPE
      SYNTAX      DocsisQosVersion
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "Indication of whether the CM has registered using 1.0
          Class of Service or 1.1 Quality of Service."
```

```
    REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Annex G."
   ::= { docsIfCmtsCmStatusEntry 18 }

docsIfCmtsCmStatusModulationType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType



    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "Indicates modulation type currently used by the CM.  Since
        this object specifically identifies PHY mode, the shared
        type is not permitted.  If the upstream channel is
        unknown, this object returns a value of zero."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Table 8-19."
    ::= { docsIfCmtsCmStatusEntry 19 }

docsIfCmtsCmStatusInetAddressType OBJECT-TYPE
      SYNTAX      InetAddressType
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
          "The type of internet address of
          docsIfCmtsCmStatusInetAddress.  If the cable modem
          internet address is unassigned or unknown, then the
          value of this object is unknown(0)."
      ::= { docsIfCmtsCmStatusEntry 20 }

docsIfCmtsCmStatusInetAddress OBJECT-TYPE
      SYNTAX      InetAddress
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "Internet address of this cable modem.  If the Cable
          Modem has no Internet address assigned, or the Internet
          address is unknown, the value of this object is the
          zero-length OCTET STRING.  If the cable modem has
          multiple Internet addresses, this object returns the
          Internet address associated with the Cable
          (i.e., RF MAC) interface."
      ::= { docsIfCmtsCmStatusEntry 21 }
```

```
docsIfCmtsCmStatusValueLastUpdate OBJECT-TYPE
      SYNTAX      TimeStamp
      MAX-ACCESS  read-only
       STATUS      current
      DESCRIPTION
         "The value of sysUpTime when docsIfCmtsCmStatusValue
          was last updated."
      ::= { docsIfCmtsCmStatusEntry 22 }

docsIfCmtsCmStatusHighResolutionTimingOffset OBJECT-TYPE



   SYNTAX      Unsigned32 (0..4294967295)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "A measure of the current round trip time for this CM.
       Used for timing of CM upstream transmissions to ensure
       synchronized arrivals at the CMTS.  Units are in terms
       of (6.25 microseconds/(64*256)).  Returns zero if the value
       is unknown.
       This is the high resolution version of object
       docsIfCmtsCmStatusTimingOffset, for channels requiring
       finer resolution."
   REFERENCE
      "Data-Over-Cable Service Interface Specifications: Radio
       Frequency Interface Specification SP-RFIv2.0-I10-051209,
       Section 6.2.17."
   ::= { docsIfCmtsCmStatusEntry
 23 }

--
-- The CMTS Service Table.
--

docsIfCmtsServiceTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsServiceEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Describes the attributes of upstream service queues
       in a Cable Modem Termination System."
   ::= { docsIfCmtsObjects 4 }

docsIfCmtsServiceEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsServiceEntry
```

```
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Describes the attributes of a single upstream bandwidth
         service queue.
         Entries in this table exist for each ifEntry with an
         ifType of docsCableMaclayer(127), and for each service
         queue (Service ID) within this MAC layer.
         Entries in this table are created with the creation of
         individual Service IDs by the MAC layer and removed
         when a Service ID is removed."
    INDEX { ifIndex, docsIfCmtsServiceId }
    ::= { docsIfCmtsServiceTable
 1 }

DocsIfCmtsServiceEntry ::= SEQUENCE {



        docsIfCmtsServiceId             Integer32,
        docsIfCmtsServiceCmStatusIndex    Integer32,  -- deprecated
        docsIfCmtsServiceAdminStatus      INTEGER,
        docsIfCmtsServiceQosProfile       Integer32,
        docsIfCmtsServiceCreateTime       TimeStamp,
        docsIfCmtsServiceInOctets         Counter32,
        docsIfCmtsServiceInPackets        Counter32,
        docsIfCmtsServiceNewCmStatusIndex Integer32
    }

docsIfCmtsServiceId OBJECT-TYPE
    SYNTAX      Integer32 (1..16383)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Identifies a service queue for upstream bandwidth.  The
         attributes of this service queue are shared between the
         Cable Modem and the Cable Modem Termination System.
         The CMTS allocates upstream bandwidth to this service
         queue based on requests from the CM and on the class of
         service
 associated with this queue."
    ::= { docsIfCmtsServiceEntry 1 }

docsIfCmtsServiceCmStatusIndex OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  read-only
    STATUS      deprecated
    DESCRIPTION
```

```
        "Pointer to an entry in docsIfCmtsCmStatusTable identifying
         the cable modem using this Service Queue.  If multiple
         cable modems are using this Service Queue, the value of
         this object is zero.
         This object has been deprecated and replaced by
         docsIfCmtsServiceNewCmStatusIndex, to fix a mismatch
         of the value range with respect to docsIfCmtsCmStatusIndex
         (1..2147483647)."
    ::= { docsIfCmtsServiceEntry 2 }

docsIfCmtsServiceAdminStatus OBJECT-TYPE
    SYNTAX      INTEGER {
        enabled(1),
        disabled(2),
        destroyed(3) }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Allows a service class for a particular modem to be
         suppressed,
 (re-)enabled, or deleted altogether."



    ::= { docsIfCmtsServiceEntry 3 }

docsIfCmtsServiceQosProfile OBJECT-TYPE
    SYNTAX      Integer32 (0..16383)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The index in docsIfQosProfileTable describing the quality
         of service attributes associated with this particular
         service.  If no associated docsIfQosProfileTable entry
         exists, this object returns a value of zero."
    ::= { docsIfCmtsServiceEntry 4 }

docsIfCmtsServiceCreateTime OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this entry was created."
    ::= { docsIfCmtsServiceEntry 5 }

docsIfCmtsServiceInOctets OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "Bytes"
```

```
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The cumulative number of Packet Data octets received
         on this Service
  ID.  The count does not include the
         size of the Cable MAC header.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsServiceEntry 6 }

docsIfCmtsServiceInPackets OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "packets"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The cumulative number of Packet Data packets received
         on this Service ID.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."



    ::= { docsIfCmtsServiceEntry 7 }

docsIfCmtsServiceNewCmStatusIndex OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS
  read-only
    STATUS      current
    DESCRIPTION
        "Pointer (via docsIfCmtsCmStatusIndex) to an entry in
         docsIfCmtsCmStatusTable identifying the cable modem
         using this Service Queue.  If multiple cable modems are
         using this Service Queue, the value of this object is
         zero."
    ::= { docsIfCmtsServiceEntry 8 }

--
-- The following table provides upstream channel modulation profiles.
-- Entries in this table can be
-- re-used by one or more upstream channels.  An upstream channel
-- will have a modulation profile for each value of
```

```
-- docsIfModIntervalUsageCode.
--

docsIfCmtsModulationTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsModulationEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
       "Describes a modulation profile associated with one or more
        upstream channels."
   ::= { docsIfCmtsObjects 5 }

docsIfCmtsModulationEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsModulationEntry
    MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
       "Describes a modulation profile for an Interval Usage Code
        for one or more upstream channels.
        Entries in this table are created by the operator.

        Initial default entries MAY be created at system
        initialization time, which could report a value of
        'permanent' or 'readOnly' for docsIfCmtsModStorageType.
        A CMTS MAY reject the creation of additional Interval
        Usage Codes for a modulation profile being defined at
        Initialization time.
        No individual objects have to be specified in order
        to create an entry in this table.



        Note that some objects do not have DEFVAL clauses
        but do have calculated defaults and need not be specified
        during row creation."
    INDEX { docsIfCmtsModIndex, docsIfCmtsModIntervalUsageCode}
   ::= { docsIfCmtsModulationTable 1 }

DocsIfCmtsModulationEntry
 ::= SEQUENCE {
       docsIfCmtsModIndex                Integer32,
       docsIfCmtsModIntervalUsageCode       INTEGER,
       docsIfCmtsModControl               RowStatus,
       docsIfCmtsModType                 INTEGER,
       docsIfCmtsModPreambleLen            Integer32,
       docsIfCmtsModDifferentialEncoding    TruthValue,
       docsIfCmtsModFECErrorCorrection      Integer32,
       docsIfCmtsModFECCodewordLength       Integer32,
```

```
        docsIfCmtsModScramblerSeed          Integer32,
        docsIfCmtsModMaxBurstSize           Integer32,
        docsIfCmtsModGuardTimeSize          Unsigned32,
        docsIfCmtsModLastCodewordShortened  TruthValue,
        docsIfCmtsModScrambler              TruthValue,
        docsIfCmtsModByteInterleaverDepth   Unsigned32,
        docsIfCmtsModByteInterleaverBlockSize Unsigned32,
        docsIfCmtsModPreambleType           INTEGER,
        docsIfCmtsModTcmErrorCorrectionOn   TruthValue,
        docsIfCmtsModScdmaInterleaverStepSize Unsigned32,
        docsIfCmtsModScdmaSpreaderEnable    TruthValue,
        docsIfCmtsModScdmaSubframeCodes     Unsigned32,
        docsIfCmtsModChannelType            DocsisUpstreamType,
        docsIfCmtsModStorageType            StorageType
    }

docsIfCmtsModIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An index into the Channel Modulation table representing
         a group of Interval Usage Codes, all associated with the
         same channel."
    ::= { docsIfCmtsModulationEntry 1 }

docsIfCmtsModIntervalUsageCode OBJECT-TYPE
    SYNTAX      INTEGER {
        request(1),
        requestData(2),
        initialRanging(3),
        periodicRanging(4),
        shortData(5),



        longData(6),
        advPhyShortData(9),
        advPhyLongData(10),
        ugs(11)
    }
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An index into the Channel Modulation table that, when
         grouped with other Interval Usage Codes, fully
         instantiates all modulation sets for a given upstream
         channel."
```

```
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-20."
    ::= { docsIfCmtsModulationEntry 2 }

docsIfCmtsModControl OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Controls and reflects the status of rows in this table.
         There is no restriction on the changing of values in this
         table while their associated rows are active, with the
         exception of:

         1. If a modulation profile is being referenced by one
            or more upstream channels, an attempt to set the value
            of docsIfCmtsModChannelType returns
 an
            'inconsistentValue' error.

         2. If a modulation profile is being referenced by one
            or more upstream channels, an attempt to set
            docsIfCmtsModControl to destroy(6) or notInService(2)
            returns an 'inconsistentValue' error."
    ::= { docsIfCmtsModulationEntry 3 }

docsIfCmtsModType OBJECT-TYPE
    SYNTAX      INTEGER {
        other(1),
        qpsk(2),
        qam16(3),
        qam8(4),
        qam32(5),
        qam64(6),
        qam128(7)




    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The modulation type used on this channel.  Returns
         other(1) if the modulation type is not
         qpsk, qam16, qam8, qam32, qam64, or qam128.
         Type qam128 is used for SCDMA channels only.
```

```
        See the reference for the modulation profiles
        implied by different modulation types."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications:
 Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    DEFVAL { qpsk }
    ::= { docsIfCmtsModulationEntry 4 }

docsIfCmtsModPreambleLen OBJECT-TYPE
    SYNTAX      Integer32 (0..1536)
    UNITS       "bits"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The preamble length for this modulation profile in bits.
        Default value is the minimum needed by the implementation
        at the CMTS for the given modulation profile."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 5 }

docsIfCmtsModDifferentialEncoding OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Specifies whether or not differential encoding is used
        on this channel."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    DEFVAL { false }
    ::= { docsIfCmtsModulationEntry 6 }

docsIfCmtsModFECErrorCorrection OBJECT-TYPE
    SYNTAX      Integer32 (0..16)



    UNITS       "Bytes"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
```

```
        "The number of correctable errored bytes (t) used in
         forward error correction code.  The value of 0 indicates
         that no correction is employed.  The number of check bytes
         appended will be twice this value."
      REFERENCE
         "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
      DEFVAL { 0 }
      ::= { docsIfCmtsModulationEntry 7 }

docsIfCmtsModFECCodewordLength OBJECT-TYPE
      SYNTAX      Integer32 (1..255)
      UNITS       "Bytes"
       MAX-ACCESS  read-create
      STATUS      current
      DESCRIPTION
         "The number of data bytes (k) in the forward error
         correction codeword.
         This object is not used if docsIfCmtsModFECErrorCorrection
         is zero."
      REFERENCE
         "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
      DEFVAL { 32 }
      ::= { docsIfCmtsModulationEntry 8 }

docsIfCmtsModScramblerSeed OBJECT-TYPE
      SYNTAX      Integer32 (0..32767)
      MAX-ACCESS  read-create
      STATUS      current
      DESCRIPTION
         "The 15-bit seed value for the scrambler polynomial."
      REFERENCE
         "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-19."
      DEFVAL { 0 }
      ::= { docsIfCmtsModulationEntry 9 }

docsIfCmtsModMaxBurstSize OBJECT-TYPE
      SYNTAX      Integer32
    (0..255)
      UNITS       "mini-slots"
```

```
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The maximum number of mini-slots that can be transmitted
         during this channel's burst time.  Returns zero if the
         burst length is bounded by the allocation MAP rather than
         by this profile.
         Default value is 0, except for shortData, where it is 8."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Table 8-19."
    ::= { docsIfCmtsModulationEntry 10 }

docsIfCmtsModGuardTimeSize OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "Symbol-times"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of symbol-times that MUST follow the end of
         this channel's burst.  Default value is the minimum time
         needed by the implementation for this modulation profile."

 REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 11 }

docsIfCmtsModLastCodewordShortened OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the last FEC codeword is truncated."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { true }
    ::= { docsIfCmtsModulationEntry 12 }

docsIfCmtsModScrambler OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
```

```
        "Indicates whether the scrambler is employed."



    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Tables 6-7, and 8-19."
    DEFVAL { false }
    ::= { docsIfCmtsModulationEntry 13 }

docsIfCmtsModByteInterleaverDepth OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "ATDMA Byte Interleaver Depth (Ir).  This object returns 1
         for non-ATDMA profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 14 }

docsIfCmtsModByteInterleaverBlockSize OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "ATDMA Byte Interleaver Block size (Br).  This object
         returns zero for non-ATDMA profiles "
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
          Tables 6-7, and 8-19."
    DEFVAL { 18 }
    ::= { docsIfCmtsModulationEntry 15 }

docsIfCmtsModPreambleType OBJECT-TYPE
    SYNTAX      INTEGER {
        unknown(0),
        qpsk0(1),
        qpsk1(2)
    }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
```

```
        "Preamble type for DOCSIS 2.0 bursts.  The value
         'unknown(0)' represents a row entry consisting only of
         DOCSIS 1.x bursts"
    REFERENCE



        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { qpsk0 }
    ::= { docsIfCmtsModulationEntry 16 }

docsIfCmtsModTcmErrorCorrectionOn OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Trellis Code Modulation (TCM) On/Off.  This value returns
         false for non-S-CDMA profiles."
    REFERENCE
        "Data-Over-Cable
 Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { false }
    ::= { docsIfCmtsModulationEntry 17 }

docsIfCmtsModScdmaInterleaverStepSize OBJECT-TYPE
    SYNTAX      Unsigned32 (0 | 1..32)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " S-CDMA Interleaver step size.  This value returns zero
          for non-S-CDMA profiles."
    REFERENCE
        "Data-Over-Cable Service Interface Specifications: Radio
         Frequency Interface Specification SP-RFIv2.0-I10-051209,
         Tables 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 18 }

docsIfCmtsModScdmaSpreaderEnable OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " S-CDMA spreader.  This value returns false for non-S-CDMA
```

```
        profiles.  Default value for IUC 3 and 4 is OFF; for

      all other IUCs it is ON."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Tables 6-7, and 8-19."
    ::= { docsIfCmtsModulationEntry 19 }




docsIfCmtsModScdmaSubframeCodes OBJECT-TYPE
    SYNTAX      Unsigned32 (0 | 1..128)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " S-CDMA sub-frame size.  This value returns zero
         for non-S-CDMA profiles."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 6-7, and 8-19."
    DEFVAL { 1 }
    ::= { docsIfCmtsModulationEntry 20 }

docsIfCmtsModChannelType OBJECT-TYPE
    SYNTAX      DocsisUpstreamType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       "Describes the modulation channel type for this modulation
        entry.
        All the active
 entries in a modulation profile (that is all
        active entries that share a common docsIfCmtsModIndex)
        MUST have the same value of docsIfCmtsModChannelType."
    REFERENCE
       "Data-Over-Cable Service Interface Specifications: Radio
        Frequency Interface Specification SP-RFIv2.0-I10-051209,
        Table 8-19."
    DEFVAL { tdma }
    ::= { docsIfCmtsModulationEntry 21 }

docsIfCmtsModStorageType OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-only
    STATUS       current
```

```
    DESCRIPTION
        "The storage type for this conceptual row.
         Entries with this object set to permanent(4)
         do not require write operations for read-write
         objects."
    DEFVAL      { nonVolatile }
::= { docsIfCmtsModulationEntry 22 }

docsIfCmtsQosProfilePermissions OBJECT-TYPE
    SYNTAX      BITS {
        createByManagement(0),
        updateByManagement(1),
        createByModems(2)




    }
    MAX-ACCESS  read-write
     STATUS      current
    DESCRIPTION
        "This object specifies permitted methods of creating
         entries in docsIfQosProfileTable.
         createByManagement(0) is set if entries can be created
         using SNMP.  updateByManagement(1) is set if updating
         entries using SNMP is permitted.  createByModems(2)
         is set if entries can be created based on information
         in REG-REQ MAC messages received from cable modems.
         Information in this object is only applicable if
         docsIfQosProfileTable is implemented as read-create.
         Otherwise, this object is implemented as read-only
         and returns createByModems(2).
         Either createByManagement(0) or updateByManagement(1)
         MUST be set when writing to this object.
         Note that BITS objects are encoded most significant bit
         first.  For example, if bit 2 is set, the value of this
         object is the octet string '20'H."
    ::= { docsIfCmtsObjects
 6 }

docsIfCmtsMacToCmTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsMacToCmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This is a table to provide a quick access index into the
         docsIfCmtsCmStatusTable.  There is exactly one row in this
         table for each row in the docsIfCmtsCmStatusTable.  In
         general, the management station SHOULD use this table only
```

```
        to get a pointer into the docsIfCmtsCmStatusTable (which
        corresponds to the CM's RF interface MAC address) and
        SHOULD not iterate (e.g., GetNext through) this table."
    ::= { docsIfCmtsObjects 7 }

docsIfCmtsMacToCmEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsMacToCmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the docsIfCmtsMacToCmTable.
        An entry in this table exists for each cable modem
        that is connected to the CMTS implementing this table."
     INDEX   { docsIfCmtsCmMac }
    ::= {docsIfCmtsMacToCmTable 1 }

DocsIfCmtsMacToCmEntry ::= SEQUENCE {




        docsIfCmtsCmMac     MacAddress,
        docsIfCmtsCmPtr     Integer32
    }

docsIfCmtsCmMac OBJECT-TYPE
    SYNTAX      MacAddress
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The RF side MAC address for the referenced CM (e.g., the
        interface on the CM that has docsCableMacLayer(127) as
        its ifType)."
    ::= { docsIfCmtsMacToCmEntry 1 }

docsIfCmtsCmPtr OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "An row index into docsIfCmtsCmStatusTable.  When queried
        with the correct instance value (e.g., a CM's MAC address),
        returns the index in docsIfCmtsCmStatusTable that
        represents that CM."
    ::= { docsIfCmtsMacToCmEntry 2 }

-- The following independent object and associated table
 provide
-- operators with a mechanism to evaluate the load/utilization of
```

```
-- both upstream and downstream physical channels.  This information
-- may be used for capacity planning and incident analysis and may
-- be particularly helpful in provisioning of high value QOS.
--
-- Utilization is expressed as an index representing the calculated
-- percentage utilization of the upstream or downstream channel in
-- the most recent sampling interval (i.e., utilization interval).
-- Refer to the DESCRIPTION field of the
-- docsIfCmtsChannelUtUtilization object for definitions and
-- calculation details.

docsIfCmtsChannelUtilizationInterval OBJECT-TYPE
   SYNTAX      Integer32 (0..86400)
   UNITS       "seconds"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The time interval in seconds over which the channel
       utilization index is calculated.  All upstream/downstream
       channels use the same
       docsIfCmtsChannelUtilizationInterval.



        Setting a value of zero disables utilization reporting.
       A channel utilization index is calculated over a fixed
       window applying to the most recent
       docsIfCmtsChannelUtilizationInterval.  It would therefore
       be prudent to use a relatively short
       docsIfCmtsChannelUtilizationInterval.
       It is a vendor decision whether to reset the timer when
       docsIfCmtsChannelUtilizationInterval is changed during a
       utilization sampling period."
   ::= { docsIfCmtsObjects 8 }

docsIfCmtsChannelUtilizationTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF DocsIfCmtsChannelUtilizationEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "Reports utilization statistics for attached upstream and
       downstream physical channels."
   ::= { docsIfCmtsObjects 9 }

docsIfCmtsChannelUtilizationEntry OBJECT-TYPE
   SYNTAX      DocsIfCmtsChannelUtilizationEntry
   MAX-ACCESS  not-accessible
```

```
    STATUS      current
    DESCRIPTION
        "Utilization statistics for a single upstream or downstream
         physical channel.  An entry exists in this table for each
         ifEntry with an ifType equal to
         docsCableDownstream (128)
         or docsCableUpstream (129)."
    INDEX  { ifIndex, docsIfCmtsChannelUtIfType,
         docsIfCmtsChannelUtId }
    ::= { docsIfCmtsChannelUtilizationTable 1 }

DocsIfCmtsChannelUtilizationEntry ::= SEQUENCE {
        docsIfCmtsChannelUtIfType        IANAifType,
        docsIfCmtsChannelUtId            Integer32,
        docsIfCmtsChannelUtUtilization   Integer32
    }

docsIfCmtsChannelUtIfType OBJECT-TYPE
    SYNTAX      IANAifType
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The secondary index into this table.  Indicates the IANA
         interface type associated with this physical channel.
         Only docsCableDownstream (128) and




         docsCableUpstream
 (129) are valid."
    ::= { docsIfCmtsChannelUtilizationEntry 1 }

docsIfCmtsChannelUtId OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The tertiary index into this table.  Indicates the CMTS
         identifier for this physical channel."
    ::= { docsIfCmtsChannelUtilizationEntry 2 }

docsIfCmtsChannelUtUtilization OBJECT-TYPE
    SYNTAX      Integer32 (0..100)
    UNITS       "percent"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The calculated and truncated utilization index for this
```

physical upstream or downstream channel, accurate as of the most recent docsIfCmtsChannelUtilizationInterval.

Upstream Channel Utilization Index:

The upstream channel utilization index is expressed as a percentage of mini-slots utilized on the physical channel, regardless of burst type. For an Initial Maintenance region, the mini-slots for the complete region are considered utilized if the CMTS received an upstream burst within the region from any CM on the physical channel. For contention REQ and REQ/DATA regions, the mini-slots for a transmission opportunity within the region are considered utilized if the CMTS received an upstream burst within the opportunity from any CM on the physical channel. For all other regions, utilized mini-slots are those in which the CMTS granted bandwidth to any unicast SID on the physical channel.

For an upstream interface that has multiple logical upstream channels enabled, the utilization index is a weighted sum of utilization indices for the logical channels. The weight for each utilization index is the percentage of upstream mini-slots allocated for the corresponding logical channel.

Example:

If 75% of bandwidth is allocated to the first logical channel and 25% to the second, and the utilization indices for each are 60 and 40, respectively, the utilization index for the upstream physical channel is (60 * 0.75) + (40 * 0.25) = 55. This figure applies to the most recent utilization interval.

Downstream Channel Utilization Index:

The downstream channel utilization index is a percentage expressing the ratio between bytes used to transmit data versus the total number of bytes transmitted in the raw bandwidth of the MPEG channel. As with the upstream utilization index, the calculated value represents the most recent utilization interval.

Formula:

Downstream utilization index =
(100 * (data bytes / raw bytes))

```
        Definitions:
        Data bytes:    Number of bytes transmitted as data in the

                       docsIfCmtsChannelUtilizationInterval.
                       Identical to docsIfCmtsDownChannelCtrUsed
                       Bytes measured over the utilization
                       interval.
        Raw bandwidth: Total number of bytes available for
                       transmitting data, not including bytes
                       used for headers and other overhead.
        Raw bytes:     (raw bandwidth *
                       docsIfCmtsChannelUtilizationInterval).
                       Identical to docsIfCmtsDownChannelCtrTotal
                       Bytes measured over the utilization
                       interval."
    ::= { docsIfCmtsChannelUtilizationEntry 3 }

-- The following table provides operators with input data
-- appropriate for calculating downstream channel utilization.
-- Operators may use the docsIfCmtsChannelUtilizationTable or
-- perform their own polling of the
-- docsIfCmtsDownChannelCounterTable objects to characterize
--
 their downstream channel usage.  The 32-bit counter objects are
-- included to provide backward compatibility with SNMPv1 managers,
-- which cannot access 64-bit counter objects.

docsIfCmtsDownChannelCounterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsDownChannelCounterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table is implemented at the CMTS to collect
        downstream channel statistics for utilization




        calculations."
    ::= { docsIfCmtsObjects 10 }

docsIfCmtsDownChannelCounterEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsDownChannelCounterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry provides a list of traffic counters for a single
        downstream channel.
```

```
        An entry in this table exists for each ifEntry with an
        ifType of docsCableDownstream(128)."
    INDEX { ifIndex }
    ::= { docsIfCmtsDownChannelCounterTable
 1 }

DocsIfCmtsDownChannelCounterEntry ::= SEQUENCE {
        docsIfCmtsDownChnlCtrId             Integer32,
        docsIfCmtsDownChnlCtrTotalBytes     Counter32,
        docsIfCmtsDownChnlCtrUsedBytes      Counter32,
        docsIfCmtsDownChnlCtrExtTotalBytes  Counter64,
        docsIfCmtsDownChnlCtrExtUsedBytes   Counter64
    }

docsIfCmtsDownChnlCtrId OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Cable Modem Termination System identification
        of the downstream channel within this particular MAC
        interface.  If the interface is down, the object returns
        the most current value.  If the downstream channel ID is
        unknown, this object returns a value of 0."
    ::= { docsIfCmtsDownChannelCounterEntry 1 }

docsIfCmtsDownChnlCtrTotalBytes OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "Bytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "At the CMTS, the total number of bytes in the Payload
        portion of MPEG Packets (i.e., not including MPEG header
        or pointer_field) transported by this downstream channel.
        This is the 32-bit version of
        docsIfCmtsDownChnlCtrExtTotalBytes, included to provide
        back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur



        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 2 }

docsIfCmtsDownChnlCtrUsedBytes OBJECT-TYPE
```

```
    SYNTAX      Counter32
    UNITS       "Bytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "At the CMTS, the total number of DOCSIS data bytes
        transported by this downstream channel.
        The number of data bytes is defined as the total
 number
        of bytes transported in DOCSIS payloads minus the number
        of stuff bytes transported in DOCSIS payloads.
        This is the 32-bit version of
        docsIfCmtsDownChnlCtrExtUsedBytes, included to provide
        back compatibility with SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 3 }

docsIfCmtsDownChnlCtrExtTotalBytes OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "Bytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "At the CMTS, the total number of bytes in the Payload
        portion of MPEG Packets (i.e., not including MPEG header
        or pointer_field) transported by this downstream
        channel.
        This is the 64-bit version of

        docsIfCmtsDownChnlCtrTotalBytes and will not be
        accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 4 }

docsIfCmtsDownChnlCtrExtUsedBytes OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "Bytes"
    MAX-ACCESS  read-only



    STATUS      current
```

```
    DESCRIPTION
        "At the CMTS, the total number of DOCSIS data bytes
        transported by this downstream channel.  The number
        of data bytes is defined as the total number of bytes
        transported in DOCSIS payloads minus the number of
        stuff bytes transported in DOCSIS payloads.
        This is the 64-bit version of
        docsIfCmtsDownChnlCtrUsedBytes and will not be accessible
        to SNMPv1 managers.
         Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsDownChannelCounterEntry 5 }

-- The following table provides operators with input data appropriate
-- for calculating upstream channel utilization, and for determining
-- the traffic characteristics of upstream channels.  Operators may
-- use the docsIfCmtsChannelUtilizationTable or perform their own
-- polling of the docsIfCmtsUpChannelCounterTable objects for
-- utilization determination.
-- The first four 32 and 64 objects in this table are mandatory.
-- Vendors may choose to implement the remaining optional objects to
-- provide operators with finer characterization of upstream channel
-- traffic patterns.  The 32-bit counter objects are included to
-- provide backward compatibility with SNMPv1 managers, which cannot
-- access
 64-bit counter objects.

docsIfCmtsUpChannelCounterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsIfCmtsUpChannelCounterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table is implemented at the CMTS to provide upstream
        channel statistics appropriate for channel utilization
        calculations."
    ::= { docsIfCmtsObjects 11 }

docsIfCmtsUpChannelCounterEntry OBJECT-TYPE
    SYNTAX      DocsIfCmtsUpChannelCounterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "List of traffic statistics for a single upstream channel.
        For DOCSIS 2.0 CMTSs, an entry in this table
        exists for each ifEntry with an ifType of
        docsCableUpstreamChannel (205).
```

```
        For DOCSIS 1.x CMTSs, an entry in this table
        exists for each ifEntry with an ifType of
        docsCableUpstream (129)."
    INDEX { ifIndex }
    ::= { docsIfCmtsUpChannelCounterTable 1 }

DocsIfCmtsUpChannelCounterEntry
 ::= SEQUENCE {
        docsIfCmtsUpChnlCtrId                    Integer32,
        docsIfCmtsUpChnlCtrTotalMslots           Counter32,
        docsIfCmtsUpChnlCtrUcastGrantedMslots    Counter32,
        docsIfCmtsUpChnlCtrTotalCntnMslots       Counter32,
        docsIfCmtsUpChnlCtrUsedCntnMslots        Counter32,
        docsIfCmtsUpChnlCtrExtTotalMslots        Counter64,
        docsIfCmtsUpChnlCtrExtUcastGrantedMslots Counter64,
        docsIfCmtsUpChnlCtrExtTotalCntnMslots    Counter64,
        docsIfCmtsUpChnlCtrExtUsedCntnMslots     Counter64,
        docsIfCmtsUpChnlCtrCollCntnMslots        Counter32,
        docsIfCmtsUpChnlCtrTotalCntnReqMslots    Counter32,
        docsIfCmtsUpChnlCtrUsedCntnReqMslots     Counter32,
        docsIfCmtsUpChnlCtrCollCntnReqMslots     Counter32,
        docsIfCmtsUpChnlCtrTotalCntnReqDataMslots Counter32,
        docsIfCmtsUpChnlCtrUsedCntnReqDataMslots
       Counter32,
        docsIfCmtsUpChnlCtrCollCntnReqDataMslots  Counter32,
        docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots Counter32,
        docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots Counter32,
        docsIfCmtsUpChnlCtrCollCntnInitMaintMslots Counter32,
        docsIfCmtsUpChnlCtrExtCollCntnMslots     Counter64,
        docsIfCmtsUpChnlCtrExtTotalCntnReqMslots  Counter64,
        docsIfCmtsUpChnlCtrExtUsedCntnReqMslots   Counter64,
        docsIfCmtsUpChnlCtrExtCollCntnReqMslots   Counter64,
        docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots Counter64,
        docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots Counter64,
        docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots Counter64,
        docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots Counter64,
        docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots Counter64,
        docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots Counter64
    }

docsIfCmtsUpChnlCtrId
 OBJECT-TYPE
    SYNTAX      Integer32 (0..255)
    MAX-ACCESS  read-only
    STATUS      current
```

```
    DESCRIPTION
        "The CMTS identification of the upstream channel."
    ::= { docsIfCmtsUpChannelCounterEntry 1 }

docsIfCmtsUpChnlCtrTotalMslots OBJECT-TYPE
    SYNTAX      Counter32



    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of all mini-slots
         defined for this upstream logical channel.  This count
         includes all IUCs and SIDs, even those allocated to the
         NULL SID for a 2.0 logical channel that is inactive.  This
         is the 32-bit version of docsIfCmtsUpChnlCtrExtTotalMslots
         and is included for back compatibility with SNMPv1
         managers.  Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at
 other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 2 }

docsIfCmtsUpChnlCtrUcastGrantedMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of unicast
         granted mini-slots on the upstream logical channel,
         regardless of burst type.  Unicast granted mini-slots are
         those in which the CMTS assigned bandwidth to any unicast
         SID on the logical channel.  However, this object does not
         include minis-lots for reserved IUCs, or grants to SIDs
         designated as meaning 'no CM'.  This is the 32-bit version
         of docsIfCmtsUpChnlCtrExtUcastGrantedMslots, and is
         included for back compatibility with SNMPv1 managers.
         Support for this object is mandatory.
         Discontinuities
 in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
```

::= { docsIfCmtsUpChannelCounterEntry 3 }

docsIfCmtsUpChnlCtrTotalCntnMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
mini-slots defined for this upstream logical channel. This
count includes all mini-slots assigned to a broadcast or

multicast SID on the logical channel. This is the 32-bit
version of docsIfCmtsUpChnlCtrExtTotalCntnMslots, and is
included for back compatibility with SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur
at reinitialization of the managed
system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 4 }

docsIfCmtsUpChnlCtrUsedCntnMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
mini-slots utilized on the upstream logical channel. For
contention regions, utilized mini-slots are those in which
the CMTS correctly received an upstream burst from any CM
on the upstream logical channel. This is the 32-bit
version of docsIfCmtsUpChnlCtrExtUsedCntnMslots and is
included for back compatibility with SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other

times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 5 }

docsIfCmtsUpChnlCtrExtTotalMslots OBJECT-TYPE
SYNTAX Counter64

```
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of all mini-slots
         defined for this upstream logical channel.  This count
         includes all IUCs and SIDs, even those allocated to the
         NULL SID for a 2.0 logical channel that is inactive.  This
         is the 64-bit version of docsIfCmtsUpChnlCtrTotalMslots
         and will not be accessible to SNMPv1 managers.
         Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated
 ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 6 }



docsIfCmtsUpChnlCtrExtUcastGrantedMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of unicast
         granted mini-slots on the upstream logical channel,
         regardless of burst type.  Unicast granted mini-slots are
         those in which the CMTS assigned bandwidth to any unicast
         SID on the logical channel.  However, this object does not
         include mini-slots for reserved IUCs, or grants to SIDs
         designated as meaning 'no CM'.  This is the 64-bit version
         of docsIfCmtsUpChnlCtrUcastGrantedMslots and will not be
         accessible to SNMPv1 managers.
         Support for this object is mandatory.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other

 times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 7 }

docsIfCmtsUpChnlCtrExtTotalCntnMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
```

DESCRIPTION
"Current count, from CMTS initialization, of contention mini-slots defined for this upstream logical channel. This count includes all mini-slots assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnMslots and will not be accessible to SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."

::= { docsIfCmtsUpChannelCounterEntry 8 }

docsIfCmtsUpChnlCtrExtUsedCntnMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention mini-slots utilized on the upstream logical channel. For contention regions, utilized mini-slots are those in which the CMTS correctly received an upstream burst from any CM on the upstream logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrUsedCntnMslots and will not be accessible to SNMPv1 managers.
Support for this object is mandatory.
Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 9 }

docsIfCmtsUpChnlCtrCollCntnMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention mini-slots subjected to collisions on the upstream logical channel. For contention regions, these are the mini-slots

applicable to bursts that the CMTS detected but could not
correctly receive. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtCollCntnMslots and is included for
back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 10 }

docsIfCmtsUpChnlCtrTotalCntnReqMslots OBJECT-TYPE
SYNTAX Counter32

UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request mini-slots defined for this upstream logical
channel. This count includes all mini-slots for IUC1
assigned to a broadcast or multicast SID on the logical
channel. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtTotalCntnReqMslots and is included
for back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of

ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 11 }

docsIfCmtsUpChnlCtrUsedCntnReqMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Current count, from CMTS initialization, of contention
request mini-slots utilized on this upstream logical
channel. This count includes all contention mini-slots for
IUC1 applicable to bursts that the CMTS correctly
received. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtUsedCntnReqMslots and is included
for back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 12 }

docsIfCmtsUpChnlCtrCollCntnReqMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request mini-slots subjected to collisions
on this upstream
logical channel. This includes all contention mini-slots
for IUC1 applicable to bursts that the CMTS detected but
could not correctly receive. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtCollCntnReqMslots and is included
for back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 13 }

docsIfCmtsUpChnlCtrTotalCntnReqDataMslots OBJECT-TYPE
SYNTAX Counter32
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention

request data mini-slots defined for this upstream logical
channel. This count includes all
mini-slots for IUC2
assigned to a broadcast or multicast SID on the logical
channel. This is the 32-bit version of
docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots and is
included for back compatibility with SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 14 }

```
docsIfCmtsUpChnlCtrUsedCntnReqDataMslots OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Current count, from CMTS initialization, of contention
       request data mini-slots utilized on this upstream logical
       channel.  This includes all contention mini-slots for IUC2
       applicable to bursts that the CMTS correctly received.

      This is the 32-bit version of
       docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots and is
       included for back compatibility with SNMPv1 managers.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of
       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 15 }

docsIfCmtsUpChnlCtrCollCntnReqDataMslots OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "Current count, from CMTS initialization, of contention
       request data mini-slots subjected to collisions on this
       upstream logical channel.  This includes all contention
       mini-slots for IUC2 applicable to bursts that the CMTS
       detected, but could not correctly receive.  This is the
       32-bit version of
       docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots
 and is
       included for back compatibility with SNMPv1 managers.
       Discontinuities in the value of this counter can occur
       at reinitialization of the managed system, and at other
       times as indicated by the value of




       ifCounterDiscontinuityTime for the associated ifIndex."
   ::= { docsIfCmtsUpChannelCounterEntry 16 }

docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots OBJECT-TYPE
   SYNTAX      Counter32
   UNITS       "mini-slots"
   MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
         initial maintenance mini-slots defined for this upstream
         logical channel.  This includes all mini-slots for IUC3
         assigned to a broadcast or multicast SID on the logical
         channel.  This is the 32-bit version of
         docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots
         and is included for back compatibility
 with SNMPv1
         managers.
         Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 17 }

docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
         initial maintenance mini-slots utilized on this upstream
         logical channel.  This includes all contention mini-slots
         for IUC3 applicable to bursts that the CMTS correctly
         received.  This is the 32-bit version of
         docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots
         and is included for back compatibility with SNMPv1
         managers.
         Discontinuities in the value of this counter can occur
          at reinitialization of the managed system, and at other
         times as indicated by the value of
         ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 18 }

docsIfCmtsUpChnlCtrCollCntnInitMaintMslots OBJECT-TYPE
    SYNTAX      Counter32
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION



        "Current count, from CMTS initialization, of contention
         initial maintenance mini-slots subjected to collisions on
         this upstream logical channel.  This includes all
```

contention mini-slots for IUC3 applicable to bursts that
the CMTS detected, but could not correctly receive.
This is the 32-bit version of
docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots
and is included for back compatibility with SNMPv1
managers.
Discontinuities in the value of this counter can occur
at reinitialization
of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 19 }

docsIfCmtsUpChnlCtrExtCollCntnMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of collision
contention mini-slots on the upstream logical channel.
For contention regions, these are the mini-slots applicable
to bursts that the CMTS detected, but could not correctly
receive. This is the 64-bit version of
docsIfCmtsUpChnlCtrCollCntnMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime
for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 20 }

docsIfCmtsUpChnlCtrExtTotalCntnReqMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request mini-slots defined for this upstream logical
channel. This count includes all mini-slots for IUC1
assigned to a broadcast or multicast SID on the logical
channel. This is the 64-bit version of
docsIfCmtsUpChnlCtrTotalCntnReqMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur

```
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 21 }

docsIfCmtsUpChnlCtrExtUsedCntnReqMslots
 OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        request mini-slots utilized on this upstream logical
        channel.  This count includes all contention mini-slots for
        IUC1 applicable to bursts that the CMTS correctly
        received.  This is the 64-bit version of
        docsIfCmtsUpChnlCtrUsedCntnReqMslots and will not be
        accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 22 }

docsIfCmtsUpChnlCtrExtCollCntnReqMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS
     current
    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        request mini-slots subjected to collisions on this upstream
        logical channel.  This includes all contention mini-slots
        for IUC1 applicable to bursts that the CMTS detected,
        but could not correctly receive.  This is the 64-bit
        version of docsIfCmtsUpChnlCtrCollCntnReqMslots and will
        not be accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 23 }

docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots OBJECT-TYPE
```

SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"Current count, from CMTS initialization,
of contention
request data mini-slots defined for this upstream logical
channel. This count includes all mini-slots for IUC2
assigned to a broadcast or multicast SID on the logical
channel. This is the 64-bit version of
docsIfCmtsUpChnlCtrTotalCntnReqDataMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 24 }

docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of contention
request data mini-slots utilized on this upstream logical
channel. This
includes all contention mini-slots for IUC2
applicable to bursts that the CMTS correctly received.
This is the 64-bit version of
docsIfCmtsUpChnlCtrUsedCntnReqDataMslots and will not be
accessible to SNMPv1 managers.
Discontinuities in the value of this counter can occur
at reinitialization of the managed system, and at other
times as indicated by the value of
ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 25 }

docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"Current count, from CMTS initialization, of contention request data mini-slots subjected to collisions on this upstream logical channel. This includes all contention mini-slots for IUC2 applicable to bursts that the CMTS

detected, but could not correctly receive. This is the 64-bit version of docsIfCmtsUpChnlCtrCollCntnReqDataMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur

at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 26 }

docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of initial maintenance mini-slots defined for this upstream logical channel. This count includes all mini-slots for IUC3 assigned to a broadcast or multicast SID on the logical channel. This is the 64-bit version of docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots and will not be accessible to SNMPv1 managers. Discontinuities in the value of this counter can occur at reinitialization of the managed system, and at other times as indicated by the value of ifCounterDiscontinuityTime for the associated ifIndex."
::= { docsIfCmtsUpChannelCounterEntry 27 }

docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots OBJECT-TYPE
SYNTAX Counter64
UNITS "mini-slots"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Current count, from CMTS initialization, of initial maintenance mini-slots utilized on this upstream logical channel. This includes all contention mini-slots for IUC3 applicable to bursts that the CMTS correctly received. This is the 64-bit version of

```
        docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots
        and will not be accessible to SNMPv1 managers.
        Discontinuities
 in the value of this counter can occur
        at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 28 }

docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots OBJECT-TYPE
    SYNTAX      Counter64
    UNITS       "mini-slots"
    MAX-ACCESS  read-only
    STATUS      current



    DESCRIPTION
        "Current count, from CMTS initialization, of contention
        initial maintenance mini-slots subjected to collisions on
        this upstream logical channel.  This includes all
        contention mini-slots for IUC3 applicable to bursts that
        the CMTS detected, but could not correctly receive.
        This is the 64-bit version of
        docsIfCmtsUpChnlCtrCollCntnInitMaintMslots and will not
        be accessible to SNMPv1 managers.
        Discontinuities in the value of this counter can occur
         at reinitialization of the managed system, and at other
        times as indicated by the value of
        ifCounterDiscontinuityTime for the associated ifIndex."
    ::= { docsIfCmtsUpChannelCounterEntry 29 }

--
-- notification group is for future extension.
--

docsIfNotification OBJECT IDENTIFIER     ::= { docsIfMib 2 }

--
-- MIB Compliance statements.
--


--
-- Conformance definitions
--

docsIfConformance  OBJECT IDENTIFIER     ::= { docsIfMib 3 }
docsIfCompliances  OBJECT IDENTIFIER     ::= { docsIfConformance 1 }
```

```
docsIfGroups       OBJECT IDENTIFIER     ::= { docsIfConformance 2 }

docsIfBasicCompliance MODULE-COMPLIANCE
   STATUS      deprecated
   DESCRIPTION
      "The compliance statement for devices that implement
       DOCSIS 1.x compliant Radio Frequency Interfaces."

MODULE  -- docsIfMib

-- unconditionally mandatory groups
MANDATORY-GROUPS {
   docsIfBasicGroup
   }

-- conditionally mandatory group
GROUP docsIfCmGroup



   DESCRIPTION
       "This group is implemented only in cable modems, not in
       cable modem termination systems."

-- conditionally mandatory group
GROUP docsIfCmtsGroup
   DESCRIPTION
      "This group is implemented only in cable modem termination
       systems, not in cable modems."

OBJECT  docsIfDownChannelFrequency
   WRITE-SYNTAX Integer32 (54000000..860000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems.  The values above are
       appropriate for a cable plant using a Sub-Split channel
       plan.  If DOCSIS is extended to cover other types of
       channel plans (and frequency allocations), this object
       will be modified accordingly."

OBJECT  docsIfDownChannelWidth
   WRITE-SYNTAX Integer32 (6000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is important to implement this object as read-only.
       In cable modems, this object is always
```

```
 implemented as
        read-only.  The above value is appropriate for cable
        plants running under NTSC (National Television
        Standards Committee) standards.  If DOCSIS is extended to
        work with other standards (e.g., European standards), this
        object will be modified accordingly."

OBJECT  docsIfDownChannelModulation
   WRITE-SYNTAX INTEGER {
                    qam64 (3),
                    qam256 (4)
                   }
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfDownChannelInterleave
   WRITE-SYNTAX INTEGER {
            taps8Increment16(3),
            taps16Increment8(4),
            taps32Increment4(5),



            taps64Increment2(6),
            taps128Increment1(7)
             }
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination
 systems;
       read-only in cable modems."

OBJECT  docsIfDownChannelPower
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelFrequency
   WRITE-SYNTAX Integer32 (5000000..42000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems.  The values above are
       appropriate for a cable plant using a Sub-Split channel
       plan.  If DOCSIS is extended to cover other types of
```

channel plans (and frequency allocations), this object
will be modified accordingly."

OBJECT docsIfUpChannelWidth
WRITE-SYNTAX Integer32 (200000..3200000)
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems. The above value is appropriate
for cable plants running under NTSC (National Television
Standards Committee) standards. If DOCSIS is extended to
work with other standards (e.g., European standards), this
object will be modified accordingly."

OBJECT docsIfUpChannelModulationProfile
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelSlotSize
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfUpChannelRangingBackoffStart
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelRangingBackoffEnd
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffStart
MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfUpChannelTxBackoffEnd

MIN-ACCESS read-only
DESCRIPTION
"Read-write in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant
to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth
MIN-ACCESS read-only
DESCRIPTION

"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxTxBurst
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.

```
        It is compliant to implement this object as read-only
        in cable modem termination systems."

OBJECT  docsIfQosProfStatus
   MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant
 to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfCmtsServiceAdminStatus
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsSyncInterval
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsUcdInterval
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInsertInterval
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInvitedRangingAttempts
   MIN-ACCESS  read-only
   DESCRIPTION




      "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsQosProfilePermissions
   WRITE-SYNTAX     BITS {
      createByManagement(0),
      updateByManagement(1)
     }
   MIN-ACCESS  read-only
   DESCRIPTION
       "It is compliant to implement this object as read-only."
```

```
OBJECT docsIfCmtsModType
   WRITE-SYNTAX INTEGER {
                qpsk (2),
                qam16 (3)
                 }
   DESCRIPTION
      "A management station MAY only set 16QAM or QPSK modulation,
       but others might be possible, based on device
       configuration."

OBJECT  docsIfCmtsModPreambleLen
   SYNTAX Integer32 (0..1024)
   DESCRIPTION
      "The range of the values for this MODULE-COMPLIANCE
       is 0..1024."

OBJECT  docsIfCmtsModFECErrorCorrection
      SYNTAX Integer32 (0..10)
      DESCRIPTION
         "The range of the values for this MODULE-COMPLIANCE
          is 0..10."

   ::= { docsIfCompliances 1 }

docsIfBasicComplianceV2 MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
      "The compliance statement for devices that implement
       DOCSIS 2.0 Radio Frequency Interfaces."

MODULE  -- docsIfMib

-- unconditionally
 mandatory groups
MANDATORY-GROUPS {
   docsIfBasicGroupV2
   }




-- conditionally mandatory group
GROUP docsIfCmGroupV2
   DESCRIPTION
      "This group is implemented only in cable modems, not in
       cable modem termination systems."

-- conditionally mandatory group
```

```
GROUP docsIfCmtsGroupV2
   DESCRIPTION
      "This group is implemented only in cable modem termination
       systems, not in cable modems."


OBJECT  docsIfDownChannelFrequency
   WRITE-SYNTAX Integer32 (47000000..862000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems.
       A range of 54MHz to 860MHz is appropriate for a cable
       plant using a North American Sub-Split channel plan.
       The spectrum range has been expanded to accommodate
       a lower edge of 47MHz and an upper edge of 862MHz
       for some European channel plans.
       If DOCSIS is extended to cover other
 types of channel
       plans (and frequency allocations), this object will be
       modified accordingly."

OBJECT  docsIfDownChannelWidth
   WRITE-SYNTAX Integer32 (6000000 | 8000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "It is important to implement this object as read-only.
       In cable modems, this object is always implemented as
       read-only.  The value of 6 MHz is appropriate for cable
       plants running under NTSC (National Television
       Standards Committee) standards.  The value of 8 MHz is
       appropriate for cable plants running under ETSI
       standards.  For other regional standards, this
       object will be modified accordingly."

OBJECT  docsIfDownChannelModulation
   WRITE-SYNTAX INTEGER {
                  qam64 (3),
                  qam256 (4)
                 }
   MIN-ACCESS  read-only
   DESCRIPTION



      "Read-write in cable modem termination systems;
```

```
      read-only in cable modems."

OBJECT  docsIfDownChannelInterleave
   WRITE-SYNTAX INTEGER {
            taps8Increment16(3),
            taps16Increment8(4),
            taps32Increment4(5),
            taps64Increment2(6),
            taps128Increment1(7),
            taps12increment17(8)
             }
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfDownChannelPower
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-write in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelFrequency
   WRITE-SYNTAX Integer32 (5000000..65000000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems.
       A range of 5MHz to 42MHz is appropriate for a cable
       plant using a North American Sub-Split channel plan.
        The spectrum range has been expanded to accommodate
       an upper edge of 65MHz for some European channel plans.
       If DOCSIS is extended to cover other types of channel
       plans (and frequency allocations), this object will
       be modified accordingly."

OBJECT  docsIfUpChannelWidth
   WRITE-SYNTAX Integer32 (200000..6400000)
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems,
       read-only in cable modems.  The above value is appropriate
       for cable plants running under NTSC (National Television
       Standards Committee) standards.  If DOCSIS is extended to
       work with other standards (e.g., European standards), this
       object will be modified accordingly."
```

```
OBJECT  docsIfUpChannelModulationProfile
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelSlotSize
    MIN-ACCESS  read-only
   DESCRIPTION
      "This object is always read-only in cable modems.
       It is compliant to implement this object as read-only
       in cable modem termination systems."

OBJECT  docsIfUpChannelRangingBackoffStart
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelRangingBackoffEnd
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelTxBackoffStart
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelTxBackoffEnd
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelScdmaActiveCodes
   MIN-ACCESS
 read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems.
       The number of active codes when SCDMA is in use MUST range
       from 64 to 128 and MUST be a non-Prime value.
       Providing this range allows for the following features
```

and capabilities:
1) Power management in S-CDMA spreader-on frames
(with a 3 dB spread).

2) Avoidance of code 0.
3) Flexible mini-slot sizes with and without the use of
code 0."

```
OBJECT  docsIfUpChannelScdmaCodesPerSlot
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelScdmaFrameSize
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelScdmaHoppingSeed
   MIN-ACCESS  read-only
    DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelCloneFrom
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelUpdate
   MIN-ACCESS  read-only
   DESCRIPTION
      "Read-create in cable modem termination systems;
       read-only in cable modems."

OBJECT  docsIfUpChannelStatus
     MIN-ACCESS  read-only
     DESCRIPTION
        "Read-create in Cable Modem Termination Systems;
         read-only in Cable Modems.
         Entries associated to physical interfaces only support
         the read-only value 'active'."
```

OBJECT docsIfUpChannelPreEqEnable
MIN-ACCESS read-only
DESCRIPTION
"Read-create in cable modem termination systems;
read-only in cable modems."

OBJECT docsIfQosProfPriority
MIN-ACCESS read-only

DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfGuarUpBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfMaxDownBandwidth
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfBaselinePrivacy
MIN-ACCESS read-only
DESCRIPTION
"This object is always read-only in cable modems.
It is compliant to implement this object as read-only
in cable modem termination systems."

OBJECT docsIfQosProfStatus
MIN-ACCESS read-only
DESCRIPTION

```
        "This object is always read-only in cable modems.
         It is compliant to implement this object as read-only
         in cable modem termination systems."

OBJECT  docsIfQosProfMaxTransmitBurst
    MIN-ACCESS  read-only
    DESCRIPTION
        "This object is always read-only in cable modems.
         It is compliant to implement this object as read-only
         in cable modem termination systems."



OBJECT  docsIfCmRangingTimeout
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT docsIfCmStatusModulationType
   SYNTAX         INTEGER {
      unknown(0),
      tdma(1),
      atdma(2),
      scdma(3)
   }
    DESCRIPTION

    "CM does not use both modulation burst profiles of a
         'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma'is
         not supported."

OBJECT  docsIfCmtsServiceAdminStatus
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsSyncInterval
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsUcdInterval
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInsertInterval
    MIN-ACCESS  read-only
```

```
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsInvitedRangingAttempts
    MIN-ACCESS  read-only
    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT  docsIfCmtsQosProfilePermissions
    WRITE-SYNTAX     BITS {
        createByManagement(0),
        updateByManagement(1)
        }
    MIN-ACCESS  read-only



    DESCRIPTION
        "It is compliant to implement this object as read-only."

OBJECT docsIfCmtsModType
    WRITE-SYNTAX      INTEGER {
        qpsk(2),
        qam16(3),
        qam64(6)
    }
    DESCRIPTION
        "A management station MAY only set 64QAM, 16QAM, or QPSK
         modulation for Time or Code division Multiple Access,
         but others might be possible based on device
         configuration."

OBJECT docsIfCmtsCmStatusModulationType
   SYNTAX         INTEGER {
       unknown(0),
       tdma(1),
       atdma(2),
       scdma(3)
   }
    DESCRIPTION
        "CM does not use both modulation burst profiles of a
         'tdmAndAtdma' ChannelType; therefore, 'tdmAndAtdma'is
         not supported."

    ::= { docsIfCompliances 2 }

docsIfBasicGroup OBJECT-GROUP
    OBJECTS {
```

```
        docsIfDownChannelId,
        docsIfDownChannelFrequency,
        docsIfDownChannelWidth,
        docsIfDownChannelModulation,
         docsIfDownChannelInterleave,
        docsIfDownChannelPower,
        docsIfUpChannelId,
        docsIfUpChannelFrequency,
        docsIfUpChannelWidth,
        docsIfUpChannelModulationProfile,
        docsIfUpChannelSlotSize,
        docsIfUpChannelTxTimingOffset,
        docsIfUpChannelRangingBackoffStart,
        docsIfUpChannelRangingBackoffEnd,
        docsIfUpChannelTxBackoffStart,
        docsIfUpChannelTxBackoffEnd,
        docsIfQosProfPriority,



        docsIfQosProfMaxUpBandwidth,
        docsIfQosProfGuarUpBandwidth,
        docsIfQosProfMaxDownBandwidth,
        docsIfQosProfMaxTxBurst,
        docsIfQosProfBaselinePrivacy,
        docsIfQosProfStatus,
        docsIfSigQIncludesContention,
        docsIfSigQUnerroreds,
        docsIfSigQCorrecteds,
        docsIfSigQUncorrectables,
        docsIfSigQSignalNoise,
        docsIfSigQMicroreflections,
        docsIfSigQEqualizationData
    }
    STATUS      deprecated
    DESCRIPTION
        "Group of objects implemented in both cable modems and
        cable modem termination systems."
    ::= { docsIfGroups 1 }

docsIfCmGroup OBJECT-GROUP
    OBJECTS {
        docsIfCmCmtsAddress,
        docsIfCmCapabilities,
        docsIfCmRangingTimeout,
        docsIfCmStatusValue,
        docsIfCmStatusCode,
        docsIfCmStatusTxPower,
```

```
        docsIfCmStatusResets,
        docsIfCmStatusLostSyncs,
        docsIfCmStatusInvalidMaps,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
        docsIfCmStatusRangingAborteds,
        docsIfCmServiceQosProfile,
        docsIfCmServiceTxSlotsImmed,
        docsIfCmServiceTxSlotsDed,
        docsIfCmServiceTxRetries,
        docsIfCmServiceTxExceededs,
        docsIfCmServiceRqRetries,
         docsIfCmServiceRqExceededs
    }
    STATUS      deprecated



    DESCRIPTION
        "Group of objects implemented in cable modems."
    ::= { docsIfGroups 2 }

docsIfCmtsGroup OBJECT-GROUP
    OBJECTS {
        docsIfCmtsCapabilities,
        docsIfCmtsSyncInterval,
        docsIfCmtsUcdInterval,
        docsIfCmtsMaxServiceIds,
        docsIfCmtsInvitedRangingAttempts,
        docsIfCmtsInsertInterval,
        docsIfCmtsStatusInvalidRangeReqs,
        docsIfCmtsStatusRangingAborteds,
        docsIfCmtsStatusInvalidRegReqs,
        docsIfCmtsStatusFailedRegReqs,
        docsIfCmtsStatusInvalidDataReqs,
        docsIfCmtsStatusT5Timeouts,
        docsIfCmtsCmStatusMacAddress,
        docsIfCmtsCmStatusIpAddress,
        docsIfCmtsCmStatusDownChannelIfIndex,
        docsIfCmtsCmStatusUpChannelIfIndex,
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
```

```
        docsIfCmtsCmStatusValue,
         docsIfCmtsCmStatusUnerroreds,
        docsIfCmtsCmStatusCorrecteds,
        docsIfCmtsCmStatusUncorrectables,
        docsIfCmtsCmStatusSignalNoise,
        docsIfCmtsCmStatusMicroreflections,
        docsIfCmtsServiceCmStatusIndex,
        docsIfCmtsServiceAdminStatus,
        docsIfCmtsServiceQosProfile,
        docsIfCmtsServiceCreateTime,
        docsIfCmtsServiceInOctets,
        docsIfCmtsServiceInPackets,
        docsIfCmtsModType,
        docsIfCmtsModControl,
        docsIfCmtsModPreambleLen,
        docsIfCmtsModDifferentialEncoding,
        docsIfCmtsModFECErrorCorrection,
        docsIfCmtsModFECCodewordLength,
        docsIfCmtsModScramblerSeed,
        docsIfCmtsModMaxBurstSize,
        docsIfCmtsModGuardTimeSize,
        docsIfCmtsModLastCodewordShortened,
        docsIfCmtsModScrambler,



        docsIfCmtsQosProfilePermissions,
        docsIfCmtsCmPtr
    }
    STATUS      deprecated
    DESCRIPTION
        "Group of objects
 implemented in Cable Modem Termination
         Systems."
    ::= { docsIfGroups 3 }

-- obsolete group
-- RFC 2670 already had a obsolete group, even though RFC2670
-- was the first version of this MIB Module.

docsIfObsoleteGroup OBJECT-GROUP
    OBJECTS {
        docsIfCmRangingRespTimeout,
        docsIfCmtsInsertionInterval
    }
    STATUS      obsolete
    DESCRIPTION
        "Group of objects obsoleted."
```

```
    ::= { docsIfGroups 4 }

docsIfBasicGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfDownChannelId,
        docsIfDownChannelFrequency,
        docsIfDownChannelWidth,
        docsIfDownChannelModulation,
        docsIfDownChannelInterleave,
        docsIfDownChannelPower,
        docsIfDownChannelAnnex,
        docsIfUpChannelId,
        docsIfUpChannelFrequency,
        docsIfUpChannelWidth,
        docsIfUpChannelModulationProfile,
        docsIfUpChannelSlotSize,
        docsIfUpChannelTxTimingOffset,
        docsIfUpChannelRangingBackoffStart,
         docsIfUpChannelRangingBackoffEnd,
        docsIfUpChannelTxBackoffStart,
        docsIfUpChannelTxBackoffEnd,
        docsIfUpChannelScdmaActiveCodes,
        docsIfUpChannelScdmaCodesPerSlot,
        docsIfUpChannelScdmaFrameSize,
        docsIfUpChannelScdmaHoppingSeed,
        docsIfUpChannelType,
        docsIfUpChannelCloneFrom,



        docsIfUpChannelUpdate,
        docsIfUpChannelStatus,
        docsIfUpChannelPreEqEnable,
        docsIfQosProfPriority,
        docsIfQosProfMaxUpBandwidth,
        docsIfQosProfGuarUpBandwidth,
        docsIfQosProfMaxDownBandwidth,
        docsIfQosProfBaselinePrivacy,
        docsIfQosProfStatus,
        docsIfQosProfMaxTransmitBurst,
        docsIfSigQIncludesContention,
        docsIfSigQUnerroreds,
        docsIfSigQCorrecteds,
        docsIfSigQUncorrectables,
        docsIfSigQSignalNoise,
        docsIfSigQMicroreflections,
        docsIfSigQExtUnerroreds,
        docsIfSigQExtCorrecteds,
```

```
        docsIfSigQExtUncorrectables,
        docsIfDocsisBaseCapability
    }
    STATUS      current
    DESCRIPTION
        "Group of objects implemented in both cable modems and
        cable modem termination systems."
    ::= { docsIfGroups 5 }

docsIfCmGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfCmCmtsAddress,
        docsIfCmCapabilities,
        docsIfCmRangingTimeout,
        docsIfCmStatusValue,
        docsIfCmStatusCode,
        docsIfCmStatusTxPower,
        docsIfCmStatusResets,
        docsIfCmStatusLostSyncs,
        docsIfCmStatusInvalidMaps,
        docsIfCmStatusInvalidUcds,
        docsIfCmStatusInvalidRangingResponses,
        docsIfCmStatusInvalidRegistrationResponses,
        docsIfCmStatusT1Timeouts,
        docsIfCmStatusT2Timeouts,
        docsIfCmStatusT3Timeouts,
        docsIfCmStatusT4Timeouts,
        docsIfCmStatusRangingAborteds,
        docsIfCmStatusDocsisOperMode,
        docsIfCmStatusModulationType,



        docsIfCmStatusEqualizationData,
        docsIfCmStatusUCCs,
        docsIfCmStatusUCCFails,
        docsIfCmServiceQosProfile,
        docsIfCmServiceTxSlotsImmed,
        docsIfCmServiceTxSlotsDed,
        docsIfCmServiceTxRetries,
        docsIfCmServiceTxExceededs,
        docsIfCmServiceRqRetries,
        docsIfCmServiceRqExceededs,
        docsIfCmServiceExtTxSlotsImmed,
        docsIfCmServiceExtTxSlotsDed,
        docsIfSigQEqualizationData
    }
    STATUS      current
```

```
    DESCRIPTION
        "Group of objects implemented in cable modems."
    ::= { docsIfGroups 6 }

docsIfCmtsGroupV2 OBJECT-GROUP
    OBJECTS {
        docsIfCmtsCapabilities,
        docsIfCmtsSyncInterval,
        docsIfCmtsUcdInterval,
        docsIfCmtsMaxServiceIds,
        docsIfCmtsInvitedRangingAttempts,
        docsIfCmtsInsertInterval,
        docsIfCmtsMacStorageType,
        docsIfCmtsStatusInvalidRangeReqs,
        docsIfCmtsStatusRangingAborteds,
        docsIfCmtsStatusInvalidRegReqs,
         docsIfCmtsStatusFailedRegReqs,
        docsIfCmtsStatusInvalidDataReqs,
        docsIfCmtsStatusT5Timeouts,
        docsIfCmtsCmStatusMacAddress,
        docsIfCmtsCmStatusDownChannelIfIndex,
        docsIfCmtsCmStatusUpChannelIfIndex,
        docsIfCmtsCmStatusRxPower,
        docsIfCmtsCmStatusTimingOffset,
        docsIfCmtsCmStatusEqualizationData,
        docsIfCmtsCmStatusValue,
        docsIfCmtsCmStatusUnerroreds,
        docsIfCmtsCmStatusCorrecteds,
        docsIfCmtsCmStatusUncorrectables,
        docsIfCmtsCmStatusSignalNoise,
        docsIfCmtsCmStatusMicroreflections,
        docsIfCmtsCmStatusExtUnerroreds,
        docsIfCmtsCmStatusExtCorrecteds,



        docsIfCmtsCmStatusExtUncorrectables,
        docsIfCmtsCmStatusDocsisRegMode,
        docsIfCmtsCmStatusModulationType,
        docsIfCmtsCmStatusInetAddressType,
        docsIfCmtsCmStatusInetAddress,
        docsIfCmtsCmStatusValueLastUpdate,
        docsIfCmtsCmStatusHighResolutionTimingOffset,
         docsIfCmtsServiceAdminStatus,
        docsIfCmtsServiceQosProfile,
        docsIfCmtsServiceCreateTime,
        docsIfCmtsServiceInOctets,
        docsIfCmtsServiceInPackets,
```

docsIfCmtsServiceNewCmStatusIndex,
docsIfCmtsModType,
docsIfCmtsModControl,
docsIfCmtsModPreambleLen,
docsIfCmtsModDifferentialEncoding,
docsIfCmtsModFECErrorCorrection,
docsIfCmtsModFECCodewordLength,
docsIfCmtsModScramblerSeed,
docsIfCmtsModMaxBurstSize,
docsIfCmtsModGuardTimeSize,
docsIfCmtsModLastCodewordShortened,
docsIfCmtsModScrambler,
docsIfCmtsModByteInterleaverDepth,
docsIfCmtsModByteInterleaverBlockSize,
docsIfCmtsModPreambleType,
docsIfCmtsModTcmErrorCorrectionOn,
docsIfCmtsModScdmaInterleaverStepSize,
docsIfCmtsModScdmaSpreaderEnable,
docsIfCmtsModScdmaSubframeCodes,
docsIfCmtsModChannelType,

docsIfCmtsModStorageType,
docsIfCmtsQosProfilePermissions,
docsIfCmtsCmPtr,
docsIfCmtsChannelUtilizationInterval,
docsIfCmtsChannelUtUtilization,
docsIfCmtsDownChnlCtrId,
docsIfCmtsDownChnlCtrTotalBytes,
docsIfCmtsDownChnlCtrUsedBytes,
docsIfCmtsDownChnlCtrExtTotalBytes,
docsIfCmtsDownChnlCtrExtUsedBytes,
docsIfCmtsUpChnlCtrId,
docsIfCmtsUpChnlCtrTotalMslots,
docsIfCmtsUpChnlCtrUcastGrantedMslots,
docsIfCmtsUpChnlCtrTotalCntnMslots,
docsIfCmtsUpChnlCtrUsedCntnMslots,
docsIfCmtsUpChnlCtrExtTotalMslots,

docsIfCmtsUpChnlCtrExtUcastGrantedMslots,
docsIfCmtsUpChnlCtrExtTotalCntnMslots,
docsIfCmtsUpChnlCtrExtUsedCntnMslots,
docsIfCmtsUpChnlCtrCollCntnMslots,
docsIfCmtsUpChnlCtrTotalCntnReqMslots,
docsIfCmtsUpChnlCtrUsedCntnReqMslots,
docsIfCmtsUpChnlCtrCollCntnReqMslots,
docsIfCmtsUpChnlCtrTotalCntnReqDataMslots,

```
        docsIfCmtsUpChnlCtrUsedCntnReqDataMslots,
        docsIfCmtsUpChnlCtrCollCntnReqDataMslots,
        docsIfCmtsUpChnlCtrTotalCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrUsedCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrCollCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtCollCntnMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnReqMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnReqMslots,
        docsIfCmtsUpChnlCtrExtCollCntnReqMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtCollCntnReqDataMslots,
        docsIfCmtsUpChnlCtrExtTotalCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtUsedCntnInitMaintMslots,
        docsIfCmtsUpChnlCtrExtCollCntnInitMaintMslots,
        docsIfDownChannelStorageType,
        docsIfQosProfStorageType

    }
    STATUS      current
    DESCRIPTION
        "Group of objects implemented in Cable Modem
 Termination
         Systems."
    ::= { docsIfGroups 7 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-MIB
No license file was found, but licenses were detected in source scan.

SNMP-FRAMEWORK-MIB DEFINITIONS ::= BEGIN

IMPORTS
   MODULE-IDENTITY, OBJECT-TYPE,
   OBJECT-IDENTITY,
   snmpModules                    FROM SNMPv2-SMI
   TEXTUAL-CONVENTION             FROM SNMPv2-TC
   MODULE-COMPLIANCE, OBJECT-GROUP       FROM SNMPv2-CONF;

snmpFrameworkMIB MODULE-IDENTITY
   LAST-UPDATED "200210140000Z"
   ORGANIZATION "SNMPv3 Working Group"
   CONTACT-INFO "WG-EMail:   snmpv3@lists.tislabs.com
                 Subscribe:  snmpv3-request@lists.tislabs.com

                 Co-Chair:   Russ Mundy
```

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"
DESCRIPTION "The SNMP Management Architecture MIB

Copyright (C) The Internet Society (2002). This
version of this MIB module is part of RFC 3411;
see the RFC itself for full legal notices.
"

REVISION "200210140000Z" -- 14 October 2002
DESCRIPTION "Changes in this revision:
- Updated various administrative information.

```
                - Corrected some typos.
                - Corrected typo in description of SnmpEngineID
                  that led to range overlap for 127.
                - Changed '255a' to '255t' in definition of
                  SnmpAdminString to align with current SMI.
                - Reworded 'reserved' for value zero in
                  DESCRIPTION of SnmpSecurityModel.
                - The algorithm for allocating security models
                  should give
256 per enterprise block, rather
                  than 255.
                - The example engine ID of 'abcd' is not
                  legal. Replaced with '800002b804616263'H based
                  on example enterprise 696, string 'abc'.
                - Added clarification that engineID should
                  persist across re-initializations.
                 This revision published as RFC 3411.
                "
    REVISION     "199901190000Z"        -- 19 January 1999
    DESCRIPTION  "Updated editors' addresses, fixed typos.
                  Published as RFC 2571.
                "
    REVISION     "199711200000Z"        -- 20 November 1997
    DESCRIPTION  "The initial version, published in RFC 2271.
                "
    ::= { snmpModules 10 }

 -- Textual Conventions used in the SNMP Management Architecture ***

SnmpEngineID ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION "An SNMP engine's
administratively-unique identifier.
            Objects of this type are for identification, not for
            addressing, even though it is possible that an
            address may have been used in the generation of
            a specific value.



            The value for this object may not be all zeros or
            all 'ff'H or the empty (zero length) string.

            The initial value for this object may be configured
            via an operator console entry or via an algorithmic
            function.  In the latter case, the following
            example algorithm is recommended.
```

In cases where there are multiple engines on the
same system, the use of this algorithm is NOT
appropriate, as it would result in all of those
engines ending up with the same ID value.

1) The very first bit is used to indicate how the

rest of the data is composed.

0 - as defined by enterprise using former methods
that existed before SNMPv3. See item 2 below.

1 - as defined by this architecture, see item 3
below.

Note that this allows existing uses of the
engineID (also known as AgentID [RFC1910]) to
co-exist with any new uses.

2) The snmpEngineID has a length of 12 octets.

The first four octets are set to the binary
equivalent of the agent's SNMP management
private enterprise number as assigned by the
Internet Assigned Numbers Authority (IANA).
For example, if Acme Networks has been assigned
{ enterprises 696 }, the first four octets would
be assigned '000002b8'H.

The remaining eight octets
are determined via
one or more enterprise-specific methods. Such
methods must be designed so as to maximize the
possibility that the value of this object will
be unique in the agent's administrative domain.
For example, it may be the IP address of the SNMP
entity, or the MAC address of one of the
interfaces, with each address suitably padded
with random octets. If multiple methods are
defined, then it is recommended that the first
octet indicate the method being used and the
remaining octets be a function of the method.

3) The length of the octet string varies.

The first four octets are set to the binary

equivalent of the agent's SNMP management
private enterprise number as assigned by the
Internet Assigned Numbers Authority (IANA).
For example, if Acme Networks has been assigned
{ enterprises 696 }, the first four octets would
be assigned '000002b8'H.

The very first bit is set to 1. For example, the
above value for Acme Networks now changes to be
'800002b8'H.

The fifth octet indicates how the rest (6th and
following octets) are formatted. The values for
the fifth octet are:

0 - reserved, unused.

1 - IPv4 address (4 octets)
lowest non-special IP address

2 - IPv6 address (16 octets)
lowest non-special IP address

3 - MAC address (6 octets)
lowest IEEE MAC address, canonical

order

4 - Text, administratively assigned
Maximum remaining length 27

5 - Octets, administratively assigned
Maximum remaining length 27

6-127 - reserved, unused

128-255 - as defined by the enterprise
Maximum remaining length 27

"

SYNTAX OCTET STRING (SIZE(5..32))

```
SnmpSecurityModel ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION "An identifier that uniquely identifies a
               Security Model of the Security Subsystem within
               this SNMP Management Architecture.

               The values for securityModel are allocated as
               follows:

               - The zero value does not identify any particular
                 security model.

               - Values between 1 and 255, inclusive,
are reserved
                 for standards-track Security Models and are
                 managed by the Internet Assigned Numbers Authority
                 (IANA).
               - Values greater than 255 are allocated to
                 enterprise-specific Security Models.  An
                 enterprise-specific securityModel value is defined
                 to be:

                 enterpriseID * 256 + security model within
                 enterprise

                 For example, the fourth Security Model defined by
                 the enterprise whose enterpriseID is 1 would be
                 259.

               This scheme for allocation of securityModel
               values allows for a maximum of 255 standards-
               based Security Models, and for a maximum of
               256 Security Models per enterprise.

               It is believed that the assignment of new
               securityModel values will be rare in
practice
               because the larger the number of simultaneously
               utilized Security Models, the larger the
               chance that interoperability will suffer.
               Consequently, it is believed that such a range
               will be sufficient.  In the unlikely event that
               the standards committee finds this number to be
               insufficient over time, an enterprise number
               can be allocated to obtain an additional 256
               possible values.
```

Note that the most significant bit must be zero;
hence, there are 23 bits allocated for various
organizations to design and define non-standard

securityModels. This limits the ability to
define new proprietary implementations of Security
Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded

form, the securityModel value will normally
require only a single byte since, in practice,
the leftmost bits will be zero for most messages
and sign extension is suppressed by the encoding
rules.

As of this writing, there are several values
of securityModel defined for use with SNMP or
reserved for use with supporting MIB objects.
They are as follows:

0 reserved for 'any'
1 reserved for SNMPv1
2 reserved for SNMPv2c
3 User-Based Security Model (USM)
"
SYNTAX INTEGER(0 .. 2147483647)

SnmpMessageProcessingModel ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION "An identifier that uniquely identifies a Message
Processing Model of the Message Processing
Subsystem within this SNMP Management
Architecture.

The values for messageProcessingModel are
allocated as follows:

- Values between 0 and 255, inclusive, are
reserved for standards-track Message Processing
Models and are managed by the Internet Assigned
Numbers Authority (IANA).

- Values greater than 255 are allocated to
enterprise-specific Message Processing Models.

An enterprise messageProcessingModel value is defined to be:

enterpriseID * 256 +
    messageProcessingModel within enterprise

For example, the fourth Message Processing Model defined by the enterprise whose enterpriseID

is 1 would be 259.

This scheme for allocating messageProcessingModel values allows for a maximum of 255 standards-based Message Processing Models, and for a maximum of 256 Message Processing Models per enterprise.

It is believed that the assignment of new messageProcessingModel values will be rare in practice because the larger the number of simultaneously utilized Message Processing Models, the larger the chance that interoperability will suffer. It is believed that such a range will be sufficient. In the unlikely event that the standards committee finds this number to be insufficient over time, an enterprise number can be allocated to obtain an additional 256 possible values.

Note that the most significant bit must be zero; hence, there are 23 bits allocated for various organizations to design and define non-standard messageProcessingModels. This limits the ability to define new proprietary implementations of Message Processing Models to the first 8,388,608 enterprises.

It is worthwhile to note that, in its encoded form, the messageProcessingModel value will normally require only a single byte since, in practice, the leftmost bits will be zero for most messages and sign extension is suppressed by the encoding rules.

As of this writing, there are several values of messageProcessingModel defined for use with SNMP.

```
            They are as follows:

               0  reserved for SNMPv1
               1  reserved for SNMPv2c
               2  reserved for SNMPv2u and SNMPv2*
               3  reserved for SNMPv3
            "
  SYNTAX       INTEGER(0 .. 2147483647)




SnmpSecurityLevel
 ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION "A Level of Security at which SNMP messages can be
            sent or with which operations are being processed;
            in particular, one of:

              noAuthNoPriv - without authentication and
                           without privacy,
              authNoPriv   - with authentication but
                           without privacy,
              authPriv     - with authentication and
                           with privacy.

            These three values are ordered such that
            noAuthNoPriv is less than authNoPriv and
            authNoPriv is less than authPriv.
           "
  SYNTAX       INTEGER { noAuthNoPriv(1),
                  authNoPriv(2),
                  authPriv(3)
                }

SnmpAdminString ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "255t"
  STATUS
    current
  DESCRIPTION "An octet string containing administrative
            information, preferably in human-readable form.

            To facilitate internationalization, this
            information is represented using the ISO/IEC
            IS 10646-1 character set, encoded as an octet
            string using the UTF-8 transformation format
```

described in [RFC2279].

Since additional code points are added by amendments to the 10646 standard from time to time, implementations must be prepared to encounter any code point from 0x00000000 to 0x7fffffff. Byte sequences that do not correspond to the valid UTF-8 encoding of a code point or are outside this range are prohibited.

The use of control codes should be avoided.

When it is necessary to represent a newline,

the control code sequence CR LF should be used.

The use of leading or trailing white space should be avoided.

For code points not directly supported by user interface hardware or software, an alternative means of entry and display, such as hexadecimal, may be provided.

For information encoded in 7-bit US-ASCII, the UTF-8 encoding is identical to the US-ASCII encoding.

UTF-8 may require multiple bytes to represent a single character / code point; thus the length of this object in octets may be different from the number of characters encoded. Similarly, size constraints refer to the number of encoded octets, not the number of characters represented by an encoding.

Note that when this
TC is used for an object that
is used or envisioned to be used as an index, then a SIZE restriction MUST be specified so that the number of sub-identifiers for any object instance does not exceed the limit of 128, as defined by [RFC3416].

```
            Note that the size of an SnmpAdminString object is
            measured in octets, not characters.
           "
  SYNTAX       OCTET STRING (SIZE (0..255))


-- Administrative assignments ****************************************

snmpFrameworkAdmin
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 1 }
snmpFrameworkMIBObjects
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 2 }
snmpFrameworkMIBConformance
  OBJECT IDENTIFIER ::= { snmpFrameworkMIB 3 }

-- the snmpEngine Group **********************************************

snmpEngine OBJECT IDENTIFIER ::= { snmpFrameworkMIBObjects 1 }




snmpEngineID     OBJECT-TYPE
  SYNTAX       SnmpEngineID
   MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "An SNMP engine's administratively-unique identifier.

            This information SHOULD be stored in non-volatile
            storage so that it remains constant across
            re-initializations of the SNMP engine.
           "
  ::= { snmpEngine 1 }

snmpEngineBoots  OBJECT-TYPE
  SYNTAX       INTEGER (1..2147483647)
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "The number of times that the SNMP engine has
            (re-)initialized itself since snmpEngineID
            was last configured.
           "
  ::= { snmpEngine 2 }

snmpEngineTime   OBJECT-TYPE
  SYNTAX       INTEGER (0..2147483647)
```

```
  UNITS       "seconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "The number of seconds since the value of
              the snmpEngineBoots object last changed.
              When incrementing this object's value would
               cause it to exceed its maximum,
              snmpEngineBoots is incremented as if a
              re-initialization had occurred, and this
              object's value consequently reverts to zero.
             "
  ::= { snmpEngine 3 }

snmpEngineMaxMessageSize OBJECT-TYPE
  SYNTAX       INTEGER (484..2147483647)
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION "The maximum length in octets of an SNMP message
              which this SNMP engine can send or receive and
              process, determined as the minimum of the maximum
              message size values supported among all of the
              transports available to and supported by the engine.
             "
  ::= { snmpEngine 4 }



-- Registration Points for Authentication and Privacy Protocols **

snmpAuthProtocols OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION  "Registration point for standards-track
               authentication protocols
 used in SNMP Management
               Frameworks.
              "
  ::= { snmpFrameworkAdmin 1 }

snmpPrivProtocols OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION  "Registration point for standards-track privacy
               protocols used in SNMP Management Frameworks.
              "
  ::= { snmpFrameworkAdmin 2 }

-- Conformance information ********************************************

snmpFrameworkMIBCompliances
```

```
            OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 1}
snmpFrameworkMIBGroups
            OBJECT IDENTIFIER ::= {snmpFrameworkMIBConformance 2}

-- compliance statements

snmpFrameworkMIBCompliance MODULE-COMPLIANCE
  STATUS       current
  DESCRIPTION "The compliance statement for SNMP engines which
               implement the SNMP Management Framework MIB.
              "
  MODULE    -- this module
     MANDATORY-GROUPS { snmpEngineGroup }

  ::= { snmpFrameworkMIBCompliances 1 }

-- units of conformance

snmpEngineGroup
 OBJECT-GROUP
  OBJECTS {
           snmpEngineID,
           snmpEngineBoots,
           snmpEngineTime,
           snmpEngineMaxMessageSize
          }
  STATUS       current
  DESCRIPTION "A collection of objects for identifying and
               determining the configuration and current timeliness




               values of an SNMP engine.
              "
  ::= { snmpFrameworkMIBGroups 1 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-FRAMEWORK-MIB
No license file was found, but licenses were detected in source scan.

DOCS-CABLE-DEVICE-MIB DEFINITIONS ::= BEGIN

IMPORTS
      MODULE-IDENTITY,
      OBJECT-TYPE,
      IpAddress,
```

Unsigned32,
Counter32,
Integer32,
zeroDotZero,
mib-2
FROM SNMPv2-SMI -- RFC 2578
RowStatus,
RowPointer,
DateAndTime,
TruthValue,
StorageType
FROM SNMPv2-TC -- RFC 2579
InetAddressType,
InetAddress
FROM INET-ADDRESS-MIB -- RFC 4001
OBJECT-GROUP,
MODULE-COMPLIANCE
FROM SNMPv2-CONF -- RFC 2580
SnmpAdminString
FROM SNMP-FRAMEWORK-MIB -- RFC 3411
InterfaceIndexOrZero
FROM IF-MIB -- RFC 2863
ZeroBasedCounter32
FROM RMON2-MIB -- RFC 4502
diffServMIBDataPathGroup,
diffServMIBClfrGroup,

diffServMIBClfrElementGroup,
diffServMIBMultiFieldClfrGroup,
diffServMIBActionGroup,
diffServMIBDscpMarkActGroup,
diffServMIBCounterGroup,
diffServMIBAlgDropGroup,

diffServDataPathStatus,
diffServClfrStatus,
diffServClfrElementStatus,
diffServMultiFieldClfrAddrType,
diffServMultiFieldClfrSrcAddr,
diffServMultiFieldClfrDstAddr,
diffServAlgDropStatus,
diffServDataPathStorage,
diffServClfrStorage,
diffServClfrElementStorage,
diffServMultiFieldClfrStorage,
diffServActionStorage,

```
        diffServCountActStorage,
        diffServAlgDropStorage,
        diffServAlgDropType
            FROM DIFFSERV-MIB;        -- RFC 3289


docsDev MODULE-IDENTITY
        LAST-UPDATED    "200612200000Z" -- December 20, 2006
        ORGANIZATION    "IETF IP over Cable Data Network
                         Working Group"
        CONTACT-INFO
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            Co-chairs: Richard Woundy,
                       richard_woundy@cable.comcast.com
                       Jean-Francois Mule,
                       jf.mule@cablelabs.com"

        DESCRIPTION
          "This is the MIB Module for DOCSIS-compliant cable modems




            and cable-modem
 termination systems.

            Copyright (C) The IETF Trust (2006).  This version
            of this MIB module was published in RFC 4639; for full
            legal notices see the RFC itself."

        REVISION "200612200000Z" -- December 20, 2006
```

DESCRIPTION
"Second version, published as RFC 4639.

Modifications to this MIB module since RFC 2669 include:
- Deprecation of the docsDevFilter group in favor of the DiffServ MIB groups, to enable support for IPv6 filtering and DiffServ Code Point (DSCP) marking.
- Deprecation of the docsDevCpeGroup in favor of the docsDevCpeInetGroup, to enable support of IPv6.
- Addition of various InetAddress objects to enable support of IPv6.
- Deprecation of docsDevNmAccessTable in favor of SNMP Coexistence and SNMPv3 -- yet adding docsDevNmAccessTrapVersion and clarifying docsDevNmAccessIp for current use of this table,
- Addition of docsDevIgmpModeControl for management and control of the IGMP mode of operation,
- Addition of docsDevMaxCpe for management of the maxmium number of CPEs permitted access through a cable modem,
- Addition of docsDevSwServerTransportProtocol, and modifications to docsDevSoftware object DESCRIPTIONS, to enable software downloads via either TFTP or HTTP,
- Replacement of docsDevEvThrottleInhibited with docsDevEvThrottleThresholdExceeded to simplify event threshold management,
- Modification of docsDevEvReporting to enable local logging to the internal volatile log, and not to the internal non-volatile log,
- Modification of the compliance statement to make the docsDevCpe objects optional
- Created placeholders for two OIDs in the docsDevFilterPolicyTable that were never used
- Modified the DESCRIPTION of docsDevSwServerTransportProtocol and docsDevSwServerAddressType to address the dependence between each object
- Added a reference to docsDevServerConfigTftpAddress
- Clarified the scope of notifications that are covered by docsDevEvThrottleThreshold
- Clarified an error condition that could occur when

doing a SET to docsDevEvReporting
- Defined each of the enumerated types for both docsDevEvLevel and docsDevEvPriority
- Added UNITS clause to docsDevFilterLLCMatches,

docsDevFilterIpMatches, docsDevMaxCpe,
docsDevEvThrottleThreshold and docsDevEvCounts.
- Added REFERENCE clause to docsDevFilterIpProtocol
- Modified DESCRIPTION
of docsDevCpeInetAddr to be
more protocol-neutral
- Removed the enumerated value (1) from both
docsDevCpeInetSource and docsDevCpeSource
- Covered additional read-write and read-create objects
in the Security Considerations section
- Modified the default value of docsDevNmAccessIpMask
to be consistent with OSSI specification
- Modified the SYNTAX of docsDevNmAccessCommunity and
docsDevNmAccessInterfaces in the Conformance
Statement section
- Added SYNTAX clause to docsDevEvReporting in the
Conformance Statement section
- Modified SYNTAX clause of docsDevEvReporting to
move new enumerated type to byte boundary
- Added references to DOCSIS 2.0 specifications to
multiple objects
- Clarified non-persistency across reboots for
all
tables
- Clarified functionality of docsDevSw objects as
they relate to docsDevSwOperStatus
- Clarified enumerated types (9) and (10) for
docsDevServerBootState
- Defined the state of unknown(0) for the following
objects: docsDevServerDhcpAddressType,
docsDevServerTimeAddressType,
docsDevServerConfigTftpAddressType and
docsDevServerConfigTftpAddressType
- Modified the value in docsDevFilterIpDaddr to be
consistent with the SYNTAX
- Specified which rows could be modified in an
active row for docsDevFilterPolicyStatus
- Defined the term 'manually' in docsDevCpeEnroll
- Clarified the description for
docsDevFilterTosOrMask
- Covered the case of a non-existent row for
docsDevFilterPolicyPtr
- Added DEFVAL clauses for multiple
objects
- Replaced docsDevNotification OBJECT IDENTIFIER
with docsDevNotifications to address possible
compatibility issues

```
            - Added support for the usage of RFC 3413 and RFC 3014
              as event notification mechanisms
            - Removed docsDevFilterPolicyObsoleteGroup
            - Added stdInterface(9) type to docsDevEvReporting to
              support the usage of RFC3413 and RFC3014
            - Modified DESCRIPTION for docsDevMaxCpe"

        REVISION "199908190000Z"
        DESCRIPTION
           "Initial version, published as RFC 2669."

        ::= { mib-2 69 }

docsDevMIBObjects  OBJECT IDENTIFIER ::= { docsDev 1 }

docsDevBase OBJECT IDENTIFIER ::= { docsDevMIBObjects 1 }

--
-- For the following object, there is no concept in the
-- RFI specification corresponding to a backup CMTS.  The
-- enumeration is provided here in case someone is able
-- to define such a role or device.
--

docsDevRole OBJECT-TYPE
       SYNTAX INTEGER {
          cm(1),
          cmtsActive(2),
          cmtsBackup(3)
        }
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "Defines the current role of this device.  cm(1) is a
            Cable Modem, cmtsActive(2) is a Cable Modem Termination
            System that is controlling the system of cable modems,
            and cmtsBackup(3) is a CMTS that is currently connected
            but is not controlling the system (not currently used).

            In general, if this device is a 'cm', its role will not
            change during operation or between reboots.  If the
            device is a 'cmts' it may change between cmtsActive and
            cmtsBackup and back again during normal operation.  NB:
            At this time, the DOCSIS standards do not support the
            concept of a backup CMTS, but cmtsBackup is included for
            completeness."
```

```
    ::= { docsDevBase 1 }



docsDevDateTime
 OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "The current date and time, with time zone information
        (if known).

        If the real data and time cannot be determined, this
        shall represent elapsed time from boot relative to
        the standard epoch '1970-1-1,0:0:0.0'.  In other
        words, if this agent has been up for 3 minutes and
        not been able to determine what the actual date and
        time are, this object will return the value
        '1970-1-1,0:03:0.0'."
    ::= { docsDevBase 2 }

docsDevResetNow OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "Setting this object to true(1) causes the device to
        reset.  Reading this object always returns false(2)."
    ::= { docsDevBase 3 }

docsDevSerialNumber
 OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       "The manufacturer's serial number for this device."
    ::= { docsDevBase 4 }

docsDevSTPControl OBJECT-TYPE
    SYNTAX INTEGER {
       stEnabled(1),
       noStFilterBpdu(2),
       noStPassBpdu(3)
    }
    MAX-ACCESS  read-write
```

```
        STATUS      current
        DESCRIPTION
            "This object controls operation of the spanning tree
             protocol (as distinguished from transparent bridging).

             If set to stEnabled(1), then the spanning tree protocol
             is enabled, subject to bridging constraints.



             If noStFilterBpdu(2), then spanning tree is not active,
             and Bridge PDUs received are discarded.

             If noStPassBpdu(3), then spanning tree is not active,
             and Bridge PDUs are transparently forwarded.

             Note that a device need
    not implement all of these
             options, but that noStFilterBpdu(2) is required."
        DEFVAL { noStFilterBpdu }
        ::= { docsDevBase 5 }

    docsDevIgmpModeControl OBJECT-TYPE
        SYNTAX INTEGER {
            passive(1),
            active(2)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "This object controls the IGMP mode of operation for
             the CM or CMTS.  In passive mode, the device forwards
             IGMP between interfaces as based on knowledge of
             Multicast Session activity on the subscriber side
             interface and the rules defined in the DOCSIS RFI
             specification.  In active mode, the device terminates
             at and initiates IGMP through its interfaces as based
             on the knowledge of Multicast Session activity on the
             subscriber side interface."
        REFERENCE
            "DOCSIS RFI 1.1 Specification, Section 3.3.1. and

             DOCSIS RFI 2.0 Specification, Section 5.3.1."
        DEFVAL { passive }
        ::= { docsDevBase 6 }

    docsDevMaxCpe OBJECT-TYPE
        SYNTAX      Unsigned32 (0..255)
```

```
        UNITS       "CPEs"
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The maximum number of CPEs that can be granted access
            through a CM during a CM epoch.  This value can be
            obtained from the CM configuration file; however,
            it may be adjusted by the CM according to hardware or
            software limitations that have been imposed on the
            implementation."
        REFERENCE
           "DOCSIS RFI 1.0 Specification, Appendix C.7.20., and




            DOCSIS RFI 1.1 Specification, Appendix C.1.1.7. and
            DOCSIS RFI 2.0 Specification, Appendix C.1.1.7."
        ::= { docsDevBase 7 }



--
-- The following table provides one level of security for access
-- to the device by network management stations.
--
 Note that access is also constrained by the
-- community strings and any vendor-specific security.
--

docsDevNmAccessTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevNmAccessEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
           "This table controls access to SNMP objects by network
            management stations.  If the table is empty, access to
            SNMP objects is unrestricted.  The objects in this table
            MUST NOT persist across reboots.  The objects in this
            table are only accessible from cable devices that are
            not capable of operating in SNMP Coexistence mode
            (RFC 3584) or in SNMPv3 mode (RFC 3410).
            See the conformance section for
            details.  Note that some devices are required by other
            specifications (e.g., the DOCSIS OSSIv1.1 specification)
            to support the legacy SNMPv1/v2c docsDevNmAccess mode
            for
 backward compatibility.

            This table is deprecated.  Instead, use the SNMP
```

```
            coexistence MIBs from RFC 3584, the TARGET and
            NOTIFICATION MIBs from RFC 3413, and
            the View-Based Access Control Model (VACM) MIBs for
            all SNMP protocol versions from RFC 3415."
        ::= { docsDevMIBObjects 2 }

docsDevNmAccessEntry OBJECT-TYPE
        SYNTAX      DocsDevNmAccessEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "An entry describing access to SNMP objects by a
            particular network management station.  An entry in
            this table is not readable unless the management station
            has read-write permission (either implicit if the table
            is empty, or explicit through an entry in this table).
            Entries are ordered by docsDevNmAccessIndex.  The first




            matching entry (e.g., matching IP address and community

    string) is used to derive access."
        INDEX { docsDevNmAccessIndex }
        ::= {  docsDevNmAccessTable 1 }

DocsDevNmAccessEntry ::= SEQUENCE {
            docsDevNmAccessIndex         Integer32,
            docsDevNmAccessIp            IpAddress,
            docsDevNmAccessIpMask        IpAddress,
            docsDevNmAccessCommunity     OCTET STRING,
            docsDevNmAccessControl       INTEGER,
            docsDevNmAccessInterfaces    OCTET STRING,
            docsDevNmAccessStatus        RowStatus,
            docsDevNmAccessTrapVersion   INTEGER
        }

docsDevNmAccessIndex OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
            "Index used to order the application of access
            entries."
        ::= { docsDevNmAccessEntry 1 }

docsDevNmAccessIp OBJECT-TYPE
        SYNTAX      IpAddress
```

```
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "The IP address (or subnet) of the network management
            station.  The address 0.0.0.0 is defined to mean
            any Network Management Station (NMS).  If traps are
            enabled for this entry, then the value must be the
            address of a specific device.  Implementations MAY
            recognize 255.255.255.255 as equivalent to 0.0.0.0."
        DEFVAL { '00000000'h }
        ::= { docsDevNmAccessEntry 2 }

    docsDevNmAccessIpMask OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "The IP subnet mask of the network management stations.
            If traps are enabled for this entry, then the value must
            be 0.0.0.0.  Implementations MAY recognize
            255.255.255.255 as equivalent to 0.0.0.0."



        DEFVAL { '00000000'h }
        ::= { docsDevNmAccessEntry 3 }

    docsDevNmAccessCommunity OBJECT-TYPE
        SYNTAX      OCTET
     STRING
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "The community string to be matched for access by this
            entry.  If set to a zero-length string, then any
            community string will match.  When read, this object
            SHOULD return a zero-length string."
        DEFVAL { "public" }
        ::= { docsDevNmAccessEntry 4 }

    docsDevNmAccessControl OBJECT-TYPE
        SYNTAX        INTEGER {
           none(1),
           read(2),
           readWrite(3),
           roWithTraps(4),
           rwWithTraps(5),
           trapsOnly(6)
```

```
    }
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "Specifies the type of access allowed to this NMS.
        Setting this object to none(1) causes the table entry
        to be destroyed.  Read(2) allows access by 'get' and
        'get-next' PDUs.  ReadWrite(3) allows access by 'set' as
        well.
 RoWithtraps(4), rwWithTraps(5), and trapsOnly(6)
        control distribution of Trap PDUs transmitted by this
        device."
    DEFVAL { read }
    ::= { docsDevNmAccessEntry 5 }

-- The syntax of the following object was copied from RFC 1493,
-- dot1dStaticAllowedToGoTo.

docsDevNmAccessInterfaces OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1..32))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "Specifies the set of interfaces from which requests from
        this NMS will be accepted.  Each octet within
        the value of this object specifies a set of eight




        interfaces, the first octet specifying ports 1
        through 8, the second octet specifying interfaces 9
        through 16, etc.  Within each octet, the most
        significant bit represents the lowest numbered
        interface, and the least significant bit represents the
        highest numbered
 interface.  Thus, each interface is
        represented by a single bit within the value of this
        object.  If that bit has a value of '1' then that
        interface is included in the set.

        Note that entries in this table apply only to link-layer
        interfaces (e.g., Ethernet and CATV MAC).  Bits
        representing upstream and downstream channel interfaces
        MUST NOT be set to '1'.

        Note that if bits corresponding to non-existing
        interfaces are set, the result is implementation
        specific.
```

```
            Note that according to the DOCSIS OSSIv1.1
            specification, when ifIndex '1' is included in the
            set, then this row applies to all CPE
            (customer-facing) interfaces.

            The size of this object is the minimum required to
            represent all configured interfaces for this device."
        ::= { docsDevNmAccessEntry 6 }

docsDevNmAccessStatus
 OBJECT-TYPE
        SYNTAX      RowStatus
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "Controls and reflects the status of rows in this
            table.  Rows in this table may be created by either the
            create-and-go or create-and-wait paradigm.  There is no
            restriction on changing values in a row of this table
            while the row is active.

            The following objects MUST have valid values before this
            object can be set to active: docsDevNmAccessIp,
            docsDevNmAccessStatus, docsDevNmAccessIpMask,
            docsDevNmAccessCommunity, docsDevNmAccessControl, and
            docsDevNmAccessInterfaces."
        ::= { docsDevNmAccessEntry 7 }

docsDevNmAccessTrapVersion OBJECT-TYPE
        SYNTAX      INTEGER {



           disableSNMPv2trap(1),
           enableSNMPv2trap(2)
        }
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "Specifies the TRAP version that is sent to this NMS.
            Setting this object to disableSNMPv2trap (1) causes the
            trap in SNMPv1 format to be sent to a particular NMS.
            Setting this object to enableSNMPv2trap (2) causes the
            trap in SNMPv2 format be sent to a particular NMS."
        DEFVAL { disableSNMPv2trap }
        ::= { docsDevNmAccessEntry 8 }
```

```
--
-- The following group describes control objects used for downloading
-- firmware to a cable device.  Procedures for software download are
-- described in Section 3.2.1 of the RFC containing this MIB module.
--

docsDevSoftware OBJECT IDENTIFIER ::= { docsDevMIBObjects 3 }

docsDevSwServer OBJECT-TYPE
      SYNTAX      IpAddress
      MAX-ACCESS  read-write
      STATUS      deprecated
      DESCRIPTION
         "The address of the TFTP server used for software
          upgrades.  If the TFTP server is unknown or is a
          non-IPv4 address, return
 0.0.0.0.

          This object is deprecated.  See docsDevSwServerAddress
          for its replacement.  This object will have its value
          modified, given a valid SET to docsDevSwServerAddress."
      ::= { docsDevSoftware 1 }

docsDevSwFilename OBJECT-TYPE
      SYNTAX      SnmpAdminString (SIZE (0..64))
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "The filename of the software image to be downloaded via
          TFTP, or the abs_path (as defined in RFC 2616) of the
          software image to be downloaded via HTTP.

          Unless set via SNMP, this is the filename or abs_path
          specified by the provisioning server during the boot
          process that corresponds to the software version that




          is desired for this device.

          If unknown, the value of this object is the zero-length
          string."
      ::= { docsDevSoftware 2 }

docsDevSwAdminStatus OBJECT-TYPE
       SYNTAX INTEGER {
          upgradeFromMgt(1),
          allowProvisioningUpgrade(2),
```

```
        ignoreProvisioningUpgrade(3)
    }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "If set to upgradeFromMgt(1), the device will initiate a
         TFTP or HTTP software image download.  After
         successfully receiving an image, the device will set
         its state to ignoreProvisioningUpgrade(3) and reboot.
         If the download process is interrupted (e.g., by a reset
         or power failure), the device will load the previous
         image and, after re-initialization, continue to attempt
         loading the image specified in docsDevSwFilename.

         If set to allowProvisioningUpgrade(2), the device will
         use the software version information supplied by the
         provisioning server when next rebooting (this does not
         cause a reboot).


        When set to ignoreProvisioningUpgrade(3), the device
         will disregard software image upgrade information
         from the provisioning server.

         Note that reading this object can return
         upgradeFromMgt(1).  This indicates that a software
         download is currently in progress, and that the device
         will reboot after successfully receiving an image."
    DEFVAL { allowProvisioningUpgrade }
    ::= { docsDevSoftware 3 }

docsDevSwOperStatus OBJECT-TYPE
    SYNTAX INTEGER {
        inProgress(1),
        completeFromProvisioning(2),
        completeFromMgt(3),
        failed(4),
        other(5)
    }



    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "InProgress(1) indicates that a TFTP or HTTP download is
         underway, either as a result of a version mismatch at
         provisioning or as a result of a upgradeFromMgt request.
```

```
            No other docsDevSw* objects can be modified in
            this state.

            CompleteFromProvisioning(2) indicates that the last
            software upgrade was a result of version mismatch at
            provisioning.

            CompleteFromMgt(3) indicates that the last software
            upgrade was a result of setting docsDevSwAdminStatus to
            upgradeFromMgt.

            Failed(4) indicates that the last attempted download
            failed, ordinarily due to TFTP or HTTP timeout."
        REFERENCE
           "DOCSIS RFI 1.0 Specification, Section 8.2., and
            DOCSIS RFI 1.1 Specification, Section 10.1. and
            DOCSIS RFI 2.0 Specification, Section 12.1."
        ::= { docsDevSoftware 4 }

docsDevSwCurrentVers OBJECT-TYPE
        SYNTAX      SnmpAdminString
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The software version currently operating in this device.
            This
 string's syntax is that used by the
            individual vendor to identify software versions.
            For a CM, this string will describe the current
            software load.  For a CMTS, this object SHOULD contain
            a human-readable representation either of the vendor
            specific designation of the software for the chassis,
            or of the software for the control processor.  If
            neither of these is applicable, the value MUST be a
            zero-length string."
        ::= { docsDevSoftware 5 }

docsDevSwServerAddressType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "The type of address of the TFTP or HTTP server used for



            software upgrades.
```

```
            If docsDevSwServerTransportProtocol is currently set to
            tftp(1), attempting to set this object to dns(16) MUST
            result in an error."
        ::=
    { docsDevSoftware 6 }

    docsDevSwServerAddress OBJECT-TYPE
        SYNTAX      InetAddress
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "The address of the TFTP or HTTP server used for software
            upgrades.

            If the TFTP/HTTP server is unknown, return the zero-
            length address string (see the TextualConvention).

            If docsDevSwServer is also implemented in this agent,
            this object is tied to it.  A set of this object to an
            IPv4 address will result in also setting the value of
            docsDevSwServer to that address.  If this object is set
            to an IPv6 address, docsDevSwServer is set to 0.0.0.0.
            If docsDevSwServer is set, this object is also set to
            that value.  Note that if both are set in the same
            action, the order of which one sets the other is
            undefined."
        ::= { docsDevSoftware 7 }

    docsDevSwServerTransportProtocol
     OBJECT-TYPE
        SYNTAX INTEGER {
            tftp(1),
            http(2)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "This object specifies the transport protocol (TFTP or
            HTTP) to be used for software upgrades.

            If the value of this object is tftp(1), then the cable
            device uses TFTP (RFC 1350) read request packets to
            download the docsDevSwFilename from the
            docsDevSwServerAddress in octet mode.

            If the value of this object is http(2), then the cable
            device uses HTTP 1.0 (RFC 1945) or HTTP 1.1 (RFC 2616)
```

```
            GET requests sent to host docsDevSwServerAddress to



            download the software image from path docsDevSwFilename.

            If docsDevSwServerAddressType is currently set to
            dns(16), attempting to set this object to tftp(1) MUST
            result in an error."
        DEFVAL
 { tftp }
        ::= { docsDevSoftware 8 }

--
-- The following group describes server access and parameters used
-- for initial provisioning and bootstrapping.
--

docsDevServer OBJECT IDENTIFIER ::= { docsDevMIBObjects 4 }

docsDevServerBootState OBJECT-TYPE
        SYNTAX INTEGER {
            operational(1),
            disabled(2),
            waitingForDhcpOffer(3),
            waitingForDhcpResponse(4),
            waitingForTimeServer(5),
            waitingForTftp(6),
            refusedByCmts(7),
            forwardingDenied(8),
            other(9),
            unknown(10)
        }
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
            "If operational(1), the device has completed loading and
            processing of configuration parameters, and the CMTS has
            completed the Registration exchange.

            If disabled(2), then the device was administratively
            disabled, possibly by being refused network access
 in
            the configuration file.

            If waitingForDhcpOffer(3), then a Dynamic Host
            Configuration Protocol (DHCP) Discover has been
            transmitted, and no offer has yet been received.
```

If waitingForDhcpResponse(4), then a DHCP Request has
been transmitted, and no response has yet been received.

If waitingForTimeServer(5), then a Time Request has been
transmitted, and no response has yet been received.

If waitingForTftp(6), then a request to the TFTP
parameter server has been made, and no response
received.

If refusedByCmts(7), then the Registration
Request/Response exchange with the CMTS failed.

If forwardingDenied(8), then the registration process
was completed, but the network access option in the
received configuration file prohibits forwarding.

If other(9), then the registration
process reached a
point that does not fall into one of the above
categories.

If unknown(10), then the device has not yet begun the
registration process or is in some other indeterminate
state."
REFERENCE
"DOCSIS RFI 1.0 Specification, Figure 7-1, and
DOCSIS RFI 1.1 Specification, Figure 9-1 and
DOCSIS RFI 2.0 Specification, Figure 11-1."
::= { docsDevServer 1 }

docsDevServerDhcp OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"The IP address of the DHCP server that assigned an IP
address to this device. Returns 0.0.0.0 if DHCP is not
used for IP address assignment, or if this agent is
not assigned an IPv4 address.

This object is deprecated and is replaced by
docsDevServerDhcpAddress."
::= { docsDevServer

```
 2 }

docsDevServerTime OBJECT-TYPE
      SYNTAX      IpAddress
      MAX-ACCESS  read-only
      STATUS      deprecated
      DESCRIPTION
         "The IP address of the Time server (RFC 0868).  Returns
          0.0.0.0 if the time server IP address is unknown, or if
          the time server is not an IPv4 server.

          This object is deprecated and is replaced by




          docsDevServerTimeAddress."
      ::= { docsDevServer 3 }

docsDevServerTftp OBJECT-TYPE
      SYNTAX      IpAddress
      MAX-ACCESS  read-only
      STATUS      deprecated
      DESCRIPTION
         "The IP address of the TFTP server responsible for
          downloading provisioning and configuration parameters
          to this device.  Returns 0.0.0.0 if the TFTP server
          address is unknown or is not an IPv4 address.

          This object is deprecated and is replaced by
          docsDevServerConfigTftpAddress."
      ::= { docsDevServer
 4 }

docsDevServerConfigFile OBJECT-TYPE
      SYNTAX      SnmpAdminString
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "The name of the device configuration file read from
          the TFTP server.  Returns a zero-length string if
          the configuration file name is unknown."
      ::= { docsDevServer 5 }

docsDevServerDhcpAddressType OBJECT-TYPE
      SYNTAX      InetAddressType
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
```

"The type of address of docsDevServerDhcpAddress. If
DHCP was not used, this value should return
unknown(0)."
::= { docsDevServer 6 }

docsDevServerDhcpAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The internet address of the DHCP server that assigned
an IP address to this device. Returns the zero length

octet string if DHCP was not used for IP address
assignment."
::= { docsDevServer 7 }

docsDevServerTimeAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The type of address of docsDevServerTimeAddress. If
no time server exists, this value should return
unknown(0)."
::= { docsDevServer 8 }

docsDevServerTimeAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The Internet address of the RFC 868 Time server,
as provided by DHCP option 4.

Note that if multiple values are provided to the
CM in DHCP option 4, the value of this MIB object
MUST be the Time server address from which the Time
of Day reference was acquired as based on the DOCSIS
RFI specification.
During the period of time where
the Time of Day have not been acquired, the Time
server address reported by the CM may report the
first address value in the DHCP option value or the
last server address the CM attempted to get the Time

```
            of day value.

            Returns the zero-length octet string if the time server
            IP address is not provisioned."
        REFERENCE
           "DOCSIS RFI 1.1 Specification, Section 9.2.7. and
            DOCSIS RFI 2.0 Specification, Section 11.2.7."
        ::= { docsDevServer 9 }

docsDevServerConfigTftpAddressType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The type of address of docsDevServerConfigTftpAddress.
            If no TFTP server exists, this value should return
            unknown(0)."
        ::= { docsDevServer 10 }

docsDevServerConfigTftpAddress OBJECT-TYPE
         SYNTAX      InetAddress



        MAX-ACCESS  read-only
        STATUS      current
        DESCRIPTION
           "The internet address of the TFTP server responsible for
            downloading provisioning and configuration parameters
            to this device.  Returns the zero-length octet string if
            the config server address is unknown.  There are certain
            security risks that are involved with using TFTP."
        REFERENCE
           "RFC 3617, Section 5"
        ::= { docsDevServer 11 }


--
-- Event Reporting
--

docsDevEvent OBJECT IDENTIFIER ::= { docsDevMIBObjects 5 }

docsDevEvControl OBJECT-TYPE
        SYNTAX INTEGER {
           resetLog(1),
           useDefaultReporting(2)
        }
```

```
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "Setting this object to resetLog(1) empties the event
          log.  All data is deleted.  Setting it to
          useDefaultReporting(2) returns all event
 priorities to
          their factory-default reporting.  Reading this object
          always returns useDefaultReporting(2)."
      ::= { docsDevEvent 1 }

docsDevEvSyslog OBJECT-TYPE
      SYNTAX      IpAddress
      MAX-ACCESS  read-write
      STATUS      deprecated
      DESCRIPTION
         "The IP address of the Syslog server.  If 0.0.0.0, either
          syslog transmission is inhibited, or the Syslog server
          address is not an IPv4 address.

          This object is deprecated and is replaced by
          docsDevEvSyslogAddress."
      ::= { docsDevEvent 2 }

docsDevEvThrottleAdminStatus OBJECT-TYPE



      SYNTAX INTEGER {
         unconstrained(1),
         maintainBelowThreshold(2),
         stopAtThreshold(3),
         inhibited(4)
      }
      MAX-ACCESS  read-write
      STATUS      current
      DESCRIPTION
         "Controls the transmission of traps and syslog messages
          with respect
 to the trap pacing threshold.

          unconstrained(1) causes traps and syslog messages to be
          transmitted without regard to the threshold settings.

          maintainBelowThreshold(2) causes trap transmission and
          syslog messages to be suppressed if the number of traps
          would otherwise exceed the threshold.
```

stopAtThreshold(3) causes trap transmission to cease at
the threshold and not to resume until directed to do so.

inhibited(4) causes all trap transmission and syslog
messages to be suppressed.

A single event is always treated as a single event for
threshold counting. That is, an event causing both a
trap and a syslog message is still treated as a single
event.

Writing to this object resets the thresholding state."
DEFVAL { unconstrained }
::= { docsDevEvent 3 }

docsDevEvThrottleInhibited OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS deprecated
DESCRIPTION
"If true(1), trap and syslog transmission is currently
inhibited due to thresholds and/or the current setting
of docsDevEvThrottleAdminStatus. In addition, this is
true(1) when transmission is inhibited because no
syslog (docsDevEvSyslog) or trap (docsDevNmAccessEntry)
destinations have been set.

This object is deprecated and is replaced by
docsDevEvThrottleThresholdExceeded."

::= { docsDevEvent 4 }

docsDevEvThrottleThreshold OBJECT-TYPE
SYNTAX Unsigned32
UNITS "events"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Number of events per docsDevEvThrottleInterval permitted
before throttling is to occur.

A single event, whether the notification could result in

messages transmitted using syslog, SNMP, or both
protocols, and regardless of the number of destinations,
(including zero) is always treated as a single event for

```
            threshold counting.  For example, an event causing both
            a trap and a syslog message is still treated as a single
            event.

            All system notifications that occur within the device
            should be taken into consideration when calculating
            and monitoring the threshold."
        DEFVAL { 0 }
        ::= { docsDevEvent 5 }

docsDevEvThrottleInterval OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        UNITS       "seconds"
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
            "The interval over which docsDevEvThrottleThreshold
            applies."
        DEFVAL { 1 }
        ::= { docsDevEvent 6 }

--
-- The following table controls the reporting of the various classes
-- of events.
--

docsDevEvControlTable
 OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevEvControlEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "This table allows control of the reporting of event
            classes.  For each event priority, a combination of




            logging and reporting mechanisms may be chosen.  The
            mapping of event types to priorities is
            vendor dependent.  Vendors may also choose to allow
            the user to control that mapping through proprietary
            means.  Table entries MUST persist across reboots for
            CMTS devices and MUST NOT persist across reboots for CM
            devices."
        ::= {  docsDevEvent 7 }

docsDevEvControlEntry OBJECT-TYPE
        SYNTAX      DocsDevEvControlEntry
```

```
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "Allows configuration of the reporting mechanisms for a
             particular
    event priority."
        INDEX { docsDevEvPriority }
        ::= { docsDevEvControlTable 1 }

    DocsDevEvControlEntry ::= SEQUENCE {
            docsDevEvPriority       INTEGER,
            docsDevEvReporting      BITS
        }

    docsDevEvPriority OBJECT-TYPE
        SYNTAX INTEGER {
            emergency(1),
            alert(2),
            critical(3),
            error(4),
            warning(5),
            notice(6),
            information(7),
            debug(8)
        }
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "The priority level that is controlled by this
             entry.  These are ordered from most (emergency) to least
             (debug) critical.  Each event with a CM or CMTS has a
             particular priority level associated with it (as defined
             by the vendor).

             emergency(1) events indicate vendor-specific fatal
             hardware or software errors that prevent normal system
              operation.




             alert(2) events indicate a serious failure that causes
             the reporting system to reboot but is not caused by
             hardware or software malfunctioning.

             critical(3) events indicate a serious failure that
             requires attention and prevents the device from
             transmitting data but that could be recovered without
```

```
            rebooting the system.

            error(4) and warning(5) events indicate that a failure
            occurred that could interrupt the normal data flow but
            that does not cause the device to re-register.

            notice(6) and information(7) events indicate a
            milestone or checkpoint in normal operation that could
            be of particular importance for troubleshooting.

            debug(8) events are reserved for vendor-specific
            events.

            During normal operation, no event more
            critical than notice(6)
 should be generated.  Events
            between warning and emergency should be generated at
            appropriate levels of problems (e.g., emergency when the
            box is about to crash)."
        ::= { docsDevEvControlEntry 1 }

docsDevEvReporting OBJECT-TYPE
        SYNTAX BITS {
           local(0),
           traps(1),
           syslog(2),
           -- The following are extensions to the original set of
           -- labels.  The extensions start at an octet boundary.
           -- So for bits 3 - 7, one MUST set them to zero on send
           -- and one MUST ignore them on receipt.
           localVolatile(8),
           stdInterface(9)
        }
        MAX-ACCESS  read-write
        STATUS      current
        DESCRIPTION
           "Defines the action to be taken on occurrence of this
            event class.  Implementations may not necessarily
            support all options for all event classes but at
            minimum must allow traps and
 syslogging to be
            disabled.




            If the local(0) bit is set, then log to the internal
            log and update non-volatile store, for backward
```

```
            compatibility with the original RFC 2669 definition.
            If the traps(1) bit is set, then generate
            an SNMP trap; if the syslog(2) bit is set, then
            send a syslog message (assuming that the syslog address
            is set).  If the localVolatile(8) bit is set, then
            log to the internal log without updating non-volatile
            store.  If the stdInterface(9) bit is set, then the
            agent ignores all other bits except the local(0),
            syslog(2), and localVolatile(8) bits.  Setting the
            stdInterface(9) bit indicates that RFC3413 and
            RFC3014 are being used to control event reporting
            mechanisms."
        ::= { docsDevEvControlEntry 2 }

docsDevEventTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevEventEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "Contains a log of network and device events that may be
            of interest in fault isolation and troubleshooting.
            If the local(0) bit is set in docsDevEvReporting,
            entries in this table MUST persist across reboots."
        ::= {  docsDevEvent 8 }

docsDevEventEntry OBJECT-TYPE
        SYNTAX      DocsDevEventEntry
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "Describes a network or device event that may be of
            interest in fault isolation and troubleshooting.
            Multiple sequential identical events are represented by
            incrementing docsDevEvCounts and setting
            docsDevEvLastTime to the current time rather than
            creating multiple rows.

            Entries are created with the first occurrence of an
            event.  docsDevEvControl can
    be used to clear the
            table.  Individual events cannot be deleted."
        INDEX { docsDevEvIndex }
        ::= { docsDevEventTable 1 }

DocsDevEventEntry ::= SEQUENCE {
            docsDevEvIndex          Integer32,
            docsDevEvFirstTime      DateAndTime,
```

```
        docsDevEvLastTime       DateAndTime,
        docsDevEvCounts         Counter32,
        docsDevEvLevel          INTEGER,
        docsDevEvId             Unsigned32,
        docsDevEvText           SnmpAdminString
    }

docsDevEvIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Provides relative ordering of the objects in the event
        log.  This object will always increase except when
        (a) the log is reset via docsDevEvControl,
        (b) the device reboots and does not implement
        non-volatile storage for this log, or (c)
 it reaches
        the value 2^31.  The next entry for all the above
        cases is 1."
    ::= { docsDevEventEntry 1 }

docsDevEvFirstTime OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of docsDevDateTime at the time this entry was
        created."
    ::= { docsDevEventEntry 2 }

docsDevEvLastTime OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "When an entry reports only one event, this object will
        have the same value as the corresponding instance of
        docsDevEvFirstTime.  When an entry reports multiple
        events, this object will record the value that
        docsDevDateTime had when the most recent event for this
        entry occurred."
    ::= { docsDevEventEntry 3 }

-- This object was renamed from docsDevEvCount to meet naming
--
```

```
 requirements for Counter32
docsDevEvCounts OBJECT-TYPE
      SYNTAX      Counter32
      UNITS       "events"



      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "The number of consecutive event instances reported by
          this entry.  This starts at 1 with the creation of this
          row and increments by 1 for each subsequent duplicate
          event."
      ::= { docsDevEventEntry 4 }
docsDevEvLevel OBJECT-TYPE
      SYNTAX INTEGER {
         emergency(1),
         alert(2),
         critical(3),
         error(4),
         warning(5),
         notice(6),
         information(7),
         debug(8)
      }
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
         "The priority level of this event, as defined by the
          vendor.  These are ordered from most serious (emergency)
          to least serious (debug).

          emergency(1) events
 indicate vendor-specific fatal
          hardware or software errors that prevent normal system
          operation.

          alert(2) events indicate a serious failure that causes
          the reporting system to reboot but that is not caused by
          hardware or software malfunctioning.

          critical(3) events indicate a serious failure that
          requires attention and prevents the device from
          transmitting data but that could be recovered without
          rebooting the system.

          error(4) and warning(5) events indicate that a failure
```

occurred that could interrupt the normal data flow but
that does not cause the device to re-register.

notice(6) and information(7) events indicate a
milestone or checkpoint in normal operation that could
be of particular importance for troubleshooting.

debug(8) events are reserved for vendor-specific

events.

During normal operation, no event more
critical than notice(6) should be generated. Events
between warning and emergency should be generated at
appropriate levels of problems (e.g., emergency when the
box is about to crash)."
::= { docsDevEventEntry 5 }

--
-- It is strongly recommended that implementors follow the CableLabs
-- enumerations for docsDevEvId, per the DOCSIS OSSIv1.1 spec
-- and follow-on specifications.
--

docsDevEvId OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"For this product, uniquely identifies the type of event
that is reported by this entry."
REFERENCE
"DOCSIS OSSI 1.1 Specification, Appendix H and
DOCSIS OSSI 2.0 Specification, Annex D."
::= { docsDevEventEntry 6 }

docsDevEvText OBJECT-TYPE
SYNTAX SnmpAdminString

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Provides a human-readable description of the event,
including all relevant context (interface numbers,
etc.)."

```
    ::= { docsDevEventEntry 7 }

docsDevEvSyslogAddressType OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "The type of address of docsDevEvSyslogAddress.  If
        no syslog server exists, this value should return
        unknown(0)."
    DEFVAL { unknown }
    ::= { docsDevEvent 9 }




docsDevEvSyslogAddress OBJECT-TYPE
    SYNTAX      InetAddress
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "The Internet address of the Syslog server, as provided
        by DHCP option 7 or set via SNMP management.  If the
        address of the server is set to the zero-length
        string, the 0.0.0.0
 IPv4 address, or the 0: IPv6
        address, Syslog transmission is inhibited.

        Note that if multiple values are provided to the CM in
        DHCP option 7, the value of this MIB object MUST be the
        first Syslog server address received.

        By default at agent boot, this object returns the zero
        length string."
    ::= { docsDevEvent 10 }

docsDevEvThrottleThresholdExceeded OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
       "If true(1), trap and syslog transmission is currently
        inhibited due to exceeding the trap/syslog event
        threshold in the current interval."
    ::= { docsDevEvent 11 }

--
-- Link Level Control Filtering
```

```
--

docsDevFilter OBJECT IDENTIFIER ::= { docsDevMIBObjects 6 }

docsDevFilterLLCUnmatchedAction OBJECT-TYPE
    SYNTAX INTEGER {
      discard(1),
      accept(2)
    }
    MAX-ACCESS
 read-write
    STATUS     current
    DESCRIPTION
      "LLC (Link Level Control) filters can be defined on an
       inclusive or exclusive basis: CMs can be configured to
       forward only packets matching a set of layer three
       protocols, or to drop packets matching a set of layer
       three protocols.  Typical use of these filters is to



       filter out possibly harmful (given the context of a
       large metropolitan LAN) protocols.

       If set to discard(1), any L2 packet that does not match
       at least one filter in the docsDevFilterLLCTable will be
       discarded.  If set to accept(2), any L2 packet that
       does not match at least one filter in the
       docsDevFilterLLCTable will be accepted for further
       processing (e.g., bridging).  In other words, if the
       packet does not match an entry in the table, it takes
       this action;
 if it does match an entry in the table, it
       takes the opposite of this action."
    DEFVAL { accept }
    ::= { docsDevFilter 1 }

docsDevFilterLLCTable OBJECT-TYPE
    SYNTAX     SEQUENCE OF DocsDevFilterLLCEntry
    MAX-ACCESS  not-accessible
    STATUS     current
    DESCRIPTION
      "A list of filters to apply to (bridged) LLC
       traffic.  The filters in this table are applied to
       incoming traffic on the appropriate interface(s)  prior
       to any further processing (e.g., before the packet
       is handed off for level 3 processing, or for bridging).
       The specific action taken when no filter is matched is
```

```
            controlled by docsDevFilterLLCUnmatchedAction.  Table
            entries MUST NOT persist across reboots for any device."
        ::= { docsDevFilter 2 }

docsDevFilterLLCEntry OBJECT-TYPE
        SYNTAX      DocsDevFilterLLCEntry
        MAX-ACCESS  not-accessible

      STATUS      current
        DESCRIPTION
            "Describes a single filter to apply to (bridged) LLC
            traffic received on a specified interface. "
        INDEX { docsDevFilterLLCIndex }
        ::= { docsDevFilterLLCTable 1 }

DocsDevFilterLLCEntry ::= SEQUENCE {
            docsDevFilterLLCIndex             Integer32,
            docsDevFilterLLCStatus            RowStatus,
            docsDevFilterLLCIfIndex           InterfaceIndexOrZero,
            docsDevFilterLLCProtocolType      INTEGER,
            docsDevFilterLLCProtocol          Integer32,
            docsDevFilterLLCMatches           Counter32
        }



docsDevFilterLLCIndex OBJECT-TYPE
        SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "Index used for the identification of filters (note that
            LLC filter order is irrelevant)."
        ::= { docsDevFilterLLCEntry 1 }
docsDevFilterLLCStatus
 OBJECT-TYPE
        SYNTAX      RowStatus
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
            "Controls and reflects the status of rows in this
            table.  There is no restriction on changing any of the
            associated columns for this row while this object is set
            to active.

            Specifying only this object (with the
            appropriate index) on a CM is sufficient to create a
            filter row that matches all inbound packets on the
```

```
            ethernet interface and results in the packets being
            discarded.  docsDevFilterLLCIfIndex (at least) must be
            specified on a CMTS to create a row."
        ::= { docsDevFilterLLCEntry 2}

docsDevFilterLLCIfIndex OBJECT-TYPE
        SYNTAX      InterfaceIndexOrZero
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
           "The entry interface to which this filter applies.  The
            value corresponds
 to ifIndex for either a CATV MAC or
            another network interface.  If the value is zero, the
            filter applies to all interfaces.  In Cable Modems, the
            default value is the customer side interface(s).  In
            CMTSs, this object has to be specified to
            create a row in this table.

            Note that according to the DOCSIS OSSIv1.1
            specification, ifIndex '1' in the CM means that this
            row applies to all Cable Modem-to-CPE Interfaces
            (CMCI)."
        REFERENCE
           "DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and
            DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."
        ::= { docsDevFilterLLCEntry 3 }




docsDevFilterLLCProtocolType OBJECT-TYPE
        SYNTAX INTEGER {
           ethertype(1),
           dsap(2)
        }
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
           "The format of the value in docsDevFilterLLCProtocol:
            either a two-byte Ethernet Ethertype, or a one-byte
            802.2 Service Access Point (SAP) value.  ethertype(1)
            also applies to Standard Network Access Protocol
            (SNAP) encapsulated frames."
        DEFVAL { ethertype }
        ::= { docsDevFilterLLCEntry 4 }

docsDevFilterLLCProtocol OBJECT-TYPE
```

```
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      current
        DESCRIPTION
           "The layer-three protocol for which this filter applies.
            The protocol value format depends on
            docsDevFilterLLCProtocolType.  Note that for SNAP
            frames, ethertype filtering is performed rather than
            Destination Service Access Point (DSAP) =0xAA."
        DEFVAL { 0 }
        ::= { docsDevFilterLLCEntry 5 }

    docsDevFilterLLCMatches OBJECT-TYPE
        SYNTAX      Counter32
        UNITS       "matches"
        MAX-ACCESS  read-only
        STATUS      current

       DESCRIPTION
           "Counts the number of times this filter was matched."
        ::= { docsDevFilterLLCEntry 6 }

    --
    -- IPv4 Filtering
    --

    docsDevFilterIpDefault OBJECT-TYPE
        SYNTAX INTEGER {
           discard(1),
           accept(2)
        }
        MAX-ACCESS  read-write




        STATUS      deprecated
        DESCRIPTION
           "The default behavior for (bridged) packets that do not
            match IP filters (or Internet filters, if implemented)
            is defined by docsDevFilterIpDefault.

            If set to discard(1), all packets not matching an IP
            filter in docsDevFilterIpTable will be discarded.  If
            set to accept(2), all packets not matching an IP filter
            or an Internet filter will be accepted for further
            processing (e.g., bridging)."
        DEFVAL { accept }
        ::= { docsDevFilter 3 }
```

```
docsDevFilterIpTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsDevFilterIpEntry
    MAX-ACCESS
 not-accessible
    STATUS      deprecated
    DESCRIPTION
       "An ordered list of filters or classifiers to apply to
        IP traffic.  Filter application is ordered by the filter
        index, rather than by a best match algorithm (note that
        this implies that the filter table may have gaps in the
        index values).  Packets that match no filters will have
        policy 0 in the docsDevFilterPolicyTable applied to
        them, if it exists.  Otherwise, Packets that match no
        filters are discarded or forwarded according to the
        setting of docsDevFilterIpDefault.

        Any IP packet can theoretically match multiple rows of
        this table.  When considering a packet, the table is
        scanned in row index order (e.g., filter 10 is checked
        before filter 20).  If the packet matches that filter
        (which means that it matches ALL criteria for that
row),
        actions appropriate to docsDevFilterIpControl and
        docsDevFilterPolicyId are taken.  If the packet was
        discarded processing is complete.  If
        docsDevFilterIpContinue is set to true, the filter
        comparison continues with the next row in the table,
        looking for additional matches.

        If the packet matches no filter in the table, the packet
        is accepted or dropped for further processing
        according to the setting of docsDevFilterIpDefault.
        If the packet is accepted, the actions specified by
        policy group 0 (e.g., the rows in
        docsDevFilterPolicyTable that have a value of 0 for
        docsDevFilterPolicyId) are taken, if that policy



        group exists.

        Logically, this table is consulted twice during the
        processing of any IP packet: once upon its acceptance
        from the L2 entity, and once upon
its transmission to
        the L2 entity.  In actuality, for cable modems, IP
        filtering is generally the only IP processing done for
```

```
            transit traffic.  This means that inbound and outbound
            filtering can generally be done at the same time with
            one pass through the filter table.

            The objects in this table are only accessible from cable
            devices that are not operating in DiffServ MIB mode
            (RFC 3289).  See the conformance section for details.

            Note that some devices are required by other
            specifications (e.g., the DOCSIS OSSIv1.1 specification)
            to support the legacy SNMPv1/v2c docsDevFilter mode
            for backward compatibility.

            Table entries MUST NOT persist across reboots for any
            device.

            This table is deprecated.  Instead, use the DiffServ MIB
            from RFC 3289."
        ::= { docsDevFilter 4 }

docsDevFilterIpEntry
 OBJECT-TYPE
        SYNTAX      DocsDevFilterIpEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
           "Describes a filter to apply to IP traffic received on a
            specified interface.  All identity objects in this table
            (e.g., source and destination address/mask, protocol,
            source/dest port, TOS/mask, interface and direction)
            must match their respective fields in the packet for
            any given filter to match.

            To create an entry in this table, docsDevFilterIpIfIndex
            must be specified."
        INDEX { docsDevFilterIpIndex }
        ::= { docsDevFilterIpTable 1 }

DocsDevFilterIpEntry ::= SEQUENCE {
            docsDevFilterIpIndex            Integer32,
            docsDevFilterIpStatus           RowStatus,
            docsDevFilterIpControl          INTEGER,



            docsDevFilterIpIfIndex          InterfaceIndexOrZero,
```

```
    docsDevFilterIpDirection        INTEGER,
        docsDevFilterIpBroadcast        TruthValue,
        docsDevFilterIpSaddr            IpAddress,
        docsDevFilterIpSmask            IpAddress,
        docsDevFilterIpDaddr            IpAddress,
        docsDevFilterIpDmask            IpAddress,
        docsDevFilterIpProtocol         Integer32,
        docsDevFilterIpSourcePortLow    Integer32,
        docsDevFilterIpSourcePortHigh   Integer32,
        docsDevFilterIpDestPortLow      Integer32,
        docsDevFilterIpDestPortHigh     Integer32,
        docsDevFilterIpMatches          ZeroBasedCounter32,
        docsDevFilterIpTos              OCTET STRING,
        docsDevFilterIpTosMask          OCTET STRING,
        docsDevFilterIpContinue         TruthValue,
        docsDevFilterIpPolicyId         Integer32
    }

docsDevFilterIpIndex OBJECT-TYPE
    SYNTAX      Integer32 (1..2147483647)

 MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
        "Index used to order the application of filters.
        The filter with the lowest index is always applied
        first."
    ::= { docsDevFilterIpEntry 1 }

docsDevFilterIpStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
        "Controls and reflects the status of rows in this
        table.  Specifying only this object (with the
        appropriate index) on a CM is sufficient to create a
        filter row that matches all inbound packets on the
        ethernet interface and results in the packets being
        discarded.  docsDevFilterIpIfIndex (at least) must be
        specified on a CMTS to create a row.  Creation of the
        rows may be done via either create-and-wait or
        create-and-go, but the filter is not applied until this

   object is set to (or changes to) active.  There is no
        restriction in changing any object in a row while this
        object is set to active."
    ::= { docsDevFilterIpEntry 2 }
```

```
docsDevFilterIpControl OBJECT-TYPE
    SYNTAX INTEGER {
       discard(1),
       accept(2),
       policy(3)
    }
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "If set to discard(1), all packets matching this filter
        will be discarded, and scanning of the remainder of the
        filter list will be aborted.  If set to accept(2), all
        packets matching this filter will be accepted for
        further processing (e.g., bridging).  If
        docsDevFilterIpContinue is set to true, see if there
        are other matches; otherwise, done.  If set to
        policy (3), execute the policy entries
        matched by docsDevFilterIpPolicyId in
        docsDevFilterPolicyTable.

         If docsDevFilterIpContinue is set to true, continue
        scanning the table for other matches; otherwise, done."
    DEFVAL { discard }
    ::= { docsDevFilterIpEntry 3 }

docsDevFilterIpIfIndex OBJECT-TYPE
    SYNTAX      InterfaceIndexOrZero
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "The entry interface to which this filter applies.  The
        value corresponds to ifIndex for either a CATV MAC or
        another interface.  If the value is zero, the
        filter applies to all interfaces.  Default value in CMs
        is the index of the customer-side (e.g., ethernet)
        interface(s).  In CMTSes, this object MUST be
        specified to create a row in this table.

        Note that according to the DOCSIS OSSIv1.1
        specification, ifIndex '1' in the Cable Modem means
        that this row applies to all CMCI (customer-facing)
         interfaces."
    REFERENCE
       "DOCSIS OSSI 1.1 Specification, Section 3.3.4.1. and
```

```
            DOCSIS OSSI 2.0 Specification, Section 6.3.4.1."
        ::= { docsDevFilterIpEntry 4 }

docsDevFilterIpDirection OBJECT-TYPE



        SYNTAX INTEGER {
           inbound(1),
           outbound(2),
           both(3)
        }
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "Determines whether the filter is applied to inbound(1)
            traffic, outbound(2) traffic, or traffic in both(3)
            directions."
        DEFVAL { inbound }
        ::= { docsDevFilterIpEntry 5 }

docsDevFilterIpBroadcast OBJECT-TYPE
        SYNTAX      TruthValue
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "If set to true(1), the filter only applies to multicast
            and broadcast traffic.  If set to false(2), the filter
            applies to all traffic."

       DEFVAL { false }
        ::= { docsDevFilterIpEntry 6 }

docsDevFilterIpSaddr OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "The source IP address, or portion thereof, that is to be
            matched for this filter.  The source address is first
            masked (ANDed) against docsDevFilterIpSmask before
            being compared to this value.  A value of 0 for this
            object and 0 for the mask matches all IP addresses."
        DEFVAL { '00000000'h }
        ::= { docsDevFilterIpEntry 7 }

docsDevFilterIpSmask OBJECT-TYPE
        SYNTAX      IpAddress
```

```
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "A bit mask that is to be applied to the source address
            prior to matching.  This mask is not necessarily the
            same as a subnet mask, but 1s bits must be leftmost and
            contiguous."
        DEFVAL
 { '00000000'h }



        ::= { docsDevFilterIpEntry 8 }

docsDevFilterIpDaddr OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "The destination IP address, or portion thereof, that is
            to be matched for this filter.  The destination address
            is first masked (ANDed) against docsDevFilterIpDmask
            before being compared to this value.  A value of
            00000000 for this object and 00000000 for the mask
            matches all IP addresses."
        DEFVAL { '00000000'h }
        ::= { docsDevFilterIpEntry 9 }

docsDevFilterIpDmask OBJECT-TYPE
        SYNTAX      IpAddress
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "A bit mask that is to be applied to the destination
            address prior to matching.  This mask is not necessarily
            the same as a subnet mask, but 1s bits MUST be leftmost

            and contiguous."
        DEFVAL { '00000000'h }
        ::= { docsDevFilterIpEntry 10 }

docsDevFilterIpProtocol OBJECT-TYPE
        SYNTAX Integer32 (0..256)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "The IP protocol value that is to be matched.  For
            example, icmp is 1, tcp is 6, and udp is 17.  A value of
```

```
            256 matches ANY protocol."
        REFERENCE "www.iana.org/assignments/protocol-numbers"
        DEFVAL { 256 }
        ::= { docsDevFilterIpEntry 11 }

    docsDevFilterIpSourcePortLow OBJECT-TYPE
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This is the inclusive lower bound of the transport-layer
             source port range that is to be matched.  If the IP
             protocol of the packet is neither UDP nor TCP, this




             object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
         DEFVAL { 0 }
        ::= { docsDevFilterIpEntry 12 }

    docsDevFilterIpSourcePortHigh OBJECT-TYPE
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This is the inclusive upper bound of the transport-layer
             source port range that is to be matched.  If the IP
             protocol of the packet is neither UDP nor TCP, this
             object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
        DEFVAL { 65535 }
        ::= { docsDevFilterIpEntry 13 }

    docsDevFilterIpDestPortLow OBJECT-TYPE
        SYNTAX      Integer32 (0..65535)
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This is the inclusive lower bound of the transport-layer
             destination port range that is to be matched.  If the IP
             protocol of the packet is neither UDP nor TCP, this

            object is ignored during matching."
        REFERENCE "www.iana.org/assignments/port-numbers"
        DEFVAL { 0 }
        ::= { docsDevFilterIpEntry 14 }
```

```
docsDevFilterIpDestPortHigh OBJECT-TYPE
    SYNTAX      Integer32 (0..65535)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "This is the inclusive upper bound of the transport-layer
        destination port range that is to be matched.  If the IP
        protocol of the packet is neither UDP nor TCP, this
        object is ignored during matching."
    REFERENCE "www.iana.org/assignments/port-numbers"
    DEFVAL { 65535 }
    ::= { docsDevFilterIpEntry 15 }

docsDevFilterIpMatches OBJECT-TYPE
    SYNTAX      ZeroBasedCounter32
    UNITS       "matches"
    MAX-ACCESS  read-only




    STATUS      deprecated
    DESCRIPTION
       "Counts the number of times this filter was matched.
        This object is initialized
 to 0 at boot, or at row
        creation, and is reset only upon reboot."
    ::= { docsDevFilterIpEntry 16 }

docsDevFilterIpTos  OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "This is the value to be matched to the packet's
        TOS (Type of Service) value (after the TOS value
        is ANDed with docsDevFilterIpTosMask).  A value for this
        object of 0 and a mask of 0 matches all TOS values."
    DEFVAL { '00'h }
    ::= { docsDevFilterIpEntry 17 }

docsDevFilterIpTosMask OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE (1))
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "The mask to be applied to the packet's TOS value before
        matching."
    DEFVAL { '00'h }
```

```
    ::= { docsDevFilterIpEntry 18 }

docsDevFilterIpContinue OBJECT-TYPE
    SYNTAX      TruthValue

 MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "If this value is set to true and docsDevFilterIpControl
        is anything but discard (1), continue scanning and
        applying policies.  See Section 3.3.3 for more
        details."
    DEFVAL { false }
    ::= { docsDevFilterIpEntry 19 }

docsDevFilterIpPolicyId OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS  read-create
    STATUS      deprecated
    DESCRIPTION
       "This object points to an entry in
        docsDevFilterPolicyTable.  If docsDevFilterIpControl



        is set to policy (3), execute all matching policies
        in docsDevFilterPolicyTable.  If no matching policy
        exists, treat as if docsDevFilterIpControl were set
        to accept (1).  If this object is set to the value of
        0, there is no matching policy, and
        docsDevFilterPolicyTable MUST NOT be consulted."
     DEFVAL { 0 }
    ::= { docsDevFilterIpEntry 20 }

--
-- Policy Mapping Table
--

docsDevFilterPolicyTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF DocsDevFilterPolicyEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
       "A Table that maps between a policy group ID and a set
        of pointers to policies to be applied.  All rows with
        the same docsDevFilterPolicyId are part of the same
        group of policy pointers and are applied in the order
        in this table.  docsDevFilterPolicyTable exists to
```

allow multiple policy actions (referenced by policy
pointers) to be applied to any given classified packet.
The policy actions are applied in index order.
For example:

Index ID Type Action
1 1 TOS 1
9 5 TOS 1
12 1 IPSEC 3

This says that a packet that matches a filter with
policy id 1 first has TOS policy 1 applied (which might
set the TOS bits to enable a higher priority) and next
has the IPSEC policy 3 applied (which may result in the
packets being dumped into a secure VPN to a remote
encryptor).

Policy ID 0 is reserved for default actions and is
applied only to packets that match no filters in
docsDevFilterIpTable.

Table entries MUST NOT persist across reboots for any
device.

This table is deprecated. Instead, use the DiffServ MIB

from RFC 3289."
::= { docsDevFilter 5 }

docsDevFilterPolicyEntry OBJECT-TYPE
SYNTAX DocsDevFilterPolicyEntry
MAX-ACCESS not-accessible
STATUS deprecated
DESCRIPTION
"An entry in the docsDevFilterPolicyTable. Entries are
created by Network
Management. To create an entry,
docsDevFilterPolicyId MUST be specified."
INDEX { docsDevFilterPolicyIndex }
::= { docsDevFilterPolicyTable 1 }

DocsDevFilterPolicyEntry ::= SEQUENCE {
docsDevFilterPolicyIndex Integer32,
docsDevFilterPolicyId Integer32,
-- docsDevFilterPolicyType INTEGER,

```
--         docsDevFilterPolicyAction  Integer32,
           docsDevFilterPolicyStatus  RowStatus,
           docsDevFilterPolicyPtr     RowPointer
       }

docsDevFilterPolicyIndex OBJECT-TYPE
       SYNTAX      Integer32 (1..2147483647)
       MAX-ACCESS  not-accessible
       STATUS      deprecated
       DESCRIPTION "Index value for the table."
       ::= { docsDevFilterPolicyEntry 1 }

docsDevFilterPolicyId OBJECT-TYPE
       SYNTAX      Integer32 (0..2147483647)
       MAX-ACCESS  read-create
       STATUS      deprecated
       DESCRIPTION
          "Policy ID for this entry.  If a policy ID can apply
 to
           multiple rows of this table, all relevant policies are
           executed.  Policy 0 (if populated) is applied to all
           packets that do not match any of the filters.  N.B. If
           docsDevFilterIpPolicyId is set to 0, it DOES NOT match
           policy 0 of this table."
       ::= { docsDevFilterPolicyEntry 2 }

-- The following two objects were removed and never used; however,
-- to preserve OID numbering, they are simply commented out to
-- to ensure that they are not used again.
-- docsDevFilterPolicyType ::= { docsDevFilterPolicyEntry 3 }
-- docsDevFilterPolicyAction ::= { docsDevFilterPolicyEntry 4 }



docsDevFilterPolicyStatus OBJECT-TYPE
       SYNTAX      RowStatus
       MAX-ACCESS  read-create
       STATUS      deprecated
       DESCRIPTION
          "Object used to create an entry in this table.  There is
           no restriction in changing any object in a row while
           this object is set to active.
           The
 following object MUST have a valid value before this
           object can be set to active:  docsDevFilterPolicyPtr."
       ::= { docsDevFilterPolicyEntry 5 }

docsDevFilterPolicyPtr OBJECT-TYPE
```

```
        SYNTAX      RowPointer
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
           "This object points to a row in an applicable filter
            policy table.  Currently, the only standard policy
            table is docsDevFilterTosTable.

            Per the textual convention, this object points to the
            first accessible object in the row; e.g., to point to a
            row in docsDevFilterTosTable with an index of 21, the
            value of this object would be the object identifier
            docsDevTosStatus.21.

            Vendors are recommended to adhere to the same convention
            when adding vendor-specific policy table extensions.

            If this pointer references an empty or non-existent

           row, then no policy action is taken.

            The default upon row creation is a null pointer that
            results in no policy action being taken."
        DEFVAL { zeroDotZero }
        ::= { docsDevFilterPolicyEntry 6 }

--
-- TOS Policy action table
--

docsDevFilterTosTable OBJECT-TYPE
        SYNTAX      SEQUENCE OF DocsDevFilterTosEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
           "Table used to describe Type of Service (TOS) bits




            processing.

            This table is an adjunct to the docsDevFilterIpTable
            and the docsDevFilterPolicy table.  Entries in the
            latter table can point to specific rows in this (and
            other) tables and cause specific actions to be taken.
            This table permits the manipulation of the value of the
            Type of Service bits in the IP header of the matched
            packet as follows:
```

```
            Set the tosBits
 of the packet to
               (tosBits & docsDevFilterTosAndMask) |
               docsDevFilterTosOrMask

            This construct allows you to do a clear and set of all
            the TOS bits in a flexible manner.

            Table entries MUST NOT persist across reboots for any
            device.

            This table is deprecated.  Instead, use the DiffServ MIB
            from RFC 3289."
        ::= { docsDevFilter 6 }

docsDevFilterTosEntry OBJECT-TYPE
        SYNTAX      DocsDevFilterTosEntry
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
           "A TOS policy entry."
        INDEX { docsDevFilterTosIndex }
        ::= { docsDevFilterTosTable 1 }

DocsDevFilterTosEntry ::= SEQUENCE {
            docsDevFilterTosIndex   Integer32,
            docsDevFilterTosStatus  RowStatus,
            docsDevFilterTosAndMask OCTET STRING,
            docsDevFilterTosOrMask  OCTET STRING
        }

docsDevFilterTosIndex OBJECT-TYPE
         SYNTAX      Integer32 (1..2147483647)
        MAX-ACCESS  not-accessible
        STATUS      deprecated
        DESCRIPTION
           "The unique index for this row.  There are no ordering
            requirements for this table, and any valid index may be
            specified."



        ::= { docsDevFilterTosEntry 1 }

docsDevFilterTosStatus OBJECT-TYPE
        SYNTAX      RowStatus
        MAX-ACCESS  read-create
```

```
        STATUS      deprecated
        DESCRIPTION
            "The object used to create and delete entries in this
             table.  A row created by specifying just this object
             results in a row that specifies no change to the TOS
             bits.  A row may be created using either the
             create-and-go or create-and-wait paradigms.  There is
             no restriction on the ability to change values in this
             row while the row is active."
        ::= { docsDevFilterTosEntry 2 }

docsDevFilterTosAndMask OBJECT-TYPE
         SYNTAX      OCTET STRING (SIZE (1))
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This value is bitwise ANDed with the matched packet's
             TOS bits."
        DEFVAL { 'ff'h }
        ::= { docsDevFilterTosEntry 3 }

docsDevFilterTosOrMask OBJECT-TYPE
        SYNTAX      OCTET STRING (SIZE (1))
        MAX-ACCESS  read-create
        STATUS      deprecated
        DESCRIPTION
            "This value is bitwise ORed with the result from the
             AND procedure (tosBits & docsDevFilterTosAndMask).
             The result then replaces the packet's TOS bits."
        DEFVAL { '00'h }
        ::= { docsDevFilterTosEntry 4 }

--
-- CPE IP Management and anti-spoofing group.  Only implemented on
-- Cable Modems.
--

docsDevCpe OBJECT IDENTIFIER ::= { docsDevMIBObjects 7 }

docsDevCpeEnroll OBJECT-TYPE
        SYNTAX      INTEGER {
            none(1),
            any(2)




        }
        MAX-ACCESS  read-write
```

```
    STATUS      current
     DESCRIPTION
        "This object controls the population of
         docsDevFilterCpeTable.
         If set to none, the filters must be set manually
         by a network management action (either configuration
         or SNMP set).
         If set to any, the CM wiretaps the packets originating
         from the ethernet and enrolls up to docsDevCpeIpMax
         addresses as based on the source IPv4 or v6 addresses of
         those packets."
     DEFVAL { any }
     ::= { docsDevCpe 1 }

docsDevCpeIpMax OBJECT-TYPE
     SYNTAX      Integer32 (-1..2147483647)
     MAX-ACCESS  read-write
     STATUS      current
     DESCRIPTION
        "This object controls the maximum number of CPEs allowed
         to be learned behind this device.  If set to zero, any
         number of CPEs may connect up to the maximum permitted
         for the device.
         If set to -1, no filtering
 is done on CPE source
         addresses, and no entries are made in the
         docsDevFilterCpeTable via learning.  If an attempt is
         made to set this to a number greater than that
         permitted for the device, it is set to that maximum."
     DEFVAL { -1 }
     ::= { docsDevCpe 2 }

docsDevCpeTable OBJECT-TYPE
     SYNTAX      SEQUENCE OF DocsDevCpeEntry
     MAX-ACCESS  not-accessible
     STATUS      deprecated
     DESCRIPTION
        "This table lists the IPv4 addresses seen (or permitted)
         as source addresses in packets originating from the
         customer interface on this device.  In addition, this
         table can be provisioned with the specific addresses
         permitted for the CPEs via the normal row creation
         mechanisms.  Table entries MUST NOT persist across
         reboots for any device.

         N.B.  Management action can add entries in this table
         and
```

in docsDevCpeIpTable past the value of

docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the ability of the CM to add learned addresses automatically.

This table is deprecated and is replaced by docsDevCpeInetTable."

::= { docsDevCpe 3 }

```
docsDevCpeEntry OBJECT-TYPE
    SYNTAX      DocsDevCpeEntry
    MAX-ACCESS  not-accessible
    STATUS      deprecated
    DESCRIPTION
       "An entry in the docsDevFilterCpeTable.  There is one
        entry for each IPv4 CPE seen or provisioned.  If
        docsDevCpeIpMax is set to -1, this table is ignored;
        otherwise, upon receipt of an IP packet from the
        customer interface of the CM, the source IP address is
        checked against this table.  If the address is in the
        table, packet processing continues.  If the address is
        not in the table but docsDevCpeEnroll is set to any
```

and the sum of the table sizes of docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but prior to any IP filtering (docsDevFilterIpTable, docsDevNmAccessTable)."

```
    INDEX   { docsDevCpeIp }
    ::= {docsDevCpeTable 1 }

DocsDevCpeEntry ::= SEQUENCE {
        docsDevCpeIp      IpAddress,
        docsDevCpeSource  INTEGER,
        docsDevCpeStatus  RowStatus
    }

docsDevCpeIp OBJECT-TYPE
    SYNTAX      IpAddress
    MAX-ACCESS  not-accessible
    STATUS      deprecated
```

```
        DESCRIPTION
            "The IPv4 address to which this entry applies.

             N.B.  Attempts to set all zeros or all ones address
             values MUST
    be rejected."



        ::= { docsDevCpeEntry 1 }

    docsDevCpeSource OBJECT-TYPE
        SYNTAX      INTEGER {
            other(1),
            manual(2),
            learned(3)
        }

        MAX-ACCESS  read-only
        STATUS      deprecated
        DESCRIPTION
            "This object describes how this entry was created.  If
             the value is manual(2), this row was created by a
             network management action (either configuration or
             SNMP set).  If set to learned(3), then it was found via
             looking at the source IPv4 address of a received packet.
             The value other(1) is used for any entries that do not
             meet manual(2) or learned(3) criteria."
        ::= { docsDevCpeEntry 2 }

    docsDevCpeStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  deprecated
        DESCRIPTION
            "Standard object to manipulate rows.  To create a row in
             this table, one only needs
    to specify this object.
             Management stations SHOULD use the create-and-go
             mechanism for creating rows in this table."
        ::= { docsDevCpeEntry 3 }

    --
    -- Internet CPE Management and anti spoofing group, for support of
    -- non-IPv4 CPEs.
    --

    docsDevCpeInetTable OBJECT-TYPE
```

SYNTAX SEQUENCE OF DocsDevCpeInetEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table lists the IP addresses seen (or permitted) as source addresses in packets originating from the customer interface on this device. In addition, this table can be provisioned with the specific addresses permitted for the CPEs via the normal row creation mechanisms.

N.B. Management action can add entries in this table and in docsDevCpeIpTable past the value of docsDevCpeIpMax. docsDevCpeIpMax ONLY restricts the

ability of the CM to add learned addresses automatically.

Table entries MUST NOT persist across reboots for any device.

This table exactly mirrors docsDevCpeTable and applies to IPv4 and IPv6 addresses."
::= { docsDevCpe 4 }

docsDevCpeInetEntry OBJECT-TYPE
SYNTAX DocsDevCpeInetEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry in the docsDevFilterCpeInetTable. There is one entry for each IP CPE seen or provisioned. If docsDevCpeIpMax is set to -1, this table is ignored; otherwise, upon receipt of an IP packet from the customer interface of the CM, the source IP address is checked against this table. If the address is in the table, packet processing continues. If the address is not in the table but docsDevCpeEnroll is set to any and the

sum of the table sizes for docsDevCpeTable and docsDevCpeInetTable is less than docsDevCpeIpMax, the address is added to the table, and packet processing continues. Otherwise, the packet is dropped.

The filtering actions specified by this table occur after any LLC filtering (docsDevFilterLLCTable), but

```
            prior to any IP filtering (docsDevFilterIpTable,
            docsDevNmAccessTable).

            When an agent (cable modem) restarts, then all
            dynamically created rows are lost."
        INDEX   { docsDevCpeInetType, docsDevCpeInetAddr }
        ::= { docsDevCpeInetTable 1 }

DocsDevCpeInetEntry ::= SEQUENCE {
            docsDevCpeInetType      InetAddressType,
            docsDevCpeInetAddr      InetAddress,
            docsDevCpeInetSource    INTEGER,
            docsDevCpeInetRowStatus RowStatus
        }




docsDevCpeInetType OBJECT-TYPE
        SYNTAX      InetAddressType
        MAX-ACCESS
  not-accessible
        STATUS      current
        DESCRIPTION
            "The type of internet address of docsDevCpeInetAddr."
        ::= { docsDevCpeInetEntry 1 }

docsDevCpeInetAddr OBJECT-TYPE
        SYNTAX      InetAddress
        MAX-ACCESS  not-accessible
        STATUS      current
        DESCRIPTION
            "The Internet address to which this entry applies.

            Implementors need to be aware that if the size of
            docsDevCpeInetAddr exceeds 114 octets OIDs of
            instances of columns in this row will have more
            than 128 sub-identifiers and cannot be accessed
            using SNMPv1, SNMPv2c, or SNMPv3.  Only unicast
            address are allowed for this object."
        ::= { docsDevCpeInetEntry 2 }

docsDevCpeInetSource OBJECT-TYPE
        SYNTAX      INTEGER {
            manual(2),
            learned(3)
        }
        MAX-ACCESS  read-only
```

```
        STATUS      current
        DESCRIPTION
            "This object
    describes how this entry was created.  If
            the value is manual(2), this row was created by a
            network management action (either configuration or
            SNMP set).  If set to learned(3), then it was found
            via looking at the source IP address of a received
            packet."
        ::= { docsDevCpeInetEntry 3 }

    docsDevCpeInetRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "Standard object to manipulate rows.  To create a row in
            this table, one only needs to specify this object.
            Management stations SHOULD use the create-and-go
            mechanism for creating rows in this table."



        ::= { docsDevCpeInetEntry 4 }


    --
    -- Placeholder for notifications/traps.
    --

    -- erroneous, DO NOT USE docsDevNotification
    docsDevNotification OBJECT IDENTIFIER   ::= { docsDev 2 }
    -- erroneous, DO NOT USE docsDevNotification

    docsDevNotifications
     OBJECT IDENTIFIER   ::= { docsDev 0 }



    --
    -- RFC 2669 Conformance definitions
    --

    docsDevConformance  OBJECT IDENTIFIER   ::= { docsDev 3 }
    docsDevGroups       OBJECT IDENTIFIER   ::= { docsDevConformance 1 }
    docsDevCompliances  OBJECT IDENTIFIER   ::= { docsDevConformance 2 }

    docsDevBasicCompliance MODULE-COMPLIANCE
        STATUS  deprecated
```

```
        DESCRIPTION
            "The RFC 2669 compliance statement for MCNS/DOCSIS
             Cable Modems and Cable Modem Termination Systems."

    MODULE  -- docsDev

    -- conditionally mandatory groups

    GROUP docsDevBaseGroup
        DESCRIPTION
            "Mandatory in Cable Modems, optional in Cable Modem
             Termination Systems."

    GROUP docsDevEventGroup
        DESCRIPTION
            "Mandatory in Cable Modems, optional in Cable Modem
             Termination Systems."

    GROUP docsDevFilterGroup
        DESCRIPTION
            "Mandatory in Cable Modems, optional in Cable Modem
             Termination Systems."

    GROUP
     docsDevNmAccessGroup



        DESCRIPTION
            "This group is only implemented in devices that do not
             implement the SNMPv3 User Security Model.  It SHOULD NOT
             be implemented by devices that conform to SNMPv3.

             For devices that do not implement SNMPv3 or later, this
             group is Mandatory in Cable Modems and is optional
             in Cable Modem Termination Systems."

    GROUP docsDevServerGroup
        DESCRIPTION
            "This group is implemented only in Cable Modems, and is
             not implemented in Cable Modem Termination Systems."

    GROUP docsDevSoftwareGroup
        DESCRIPTION
            "This group is Mandatory in Cable Modems and optional in
             Cable Modem Termination Systems."

    GROUP docsDevCpeGroup
```

```
        DESCRIPTION
            "This group is Mandatory in Cable Modems, and is
             not implemented in Cable Modem Termination Systems."

    OBJECT docsDevSTPControl
        MIN-ACCESS read-only
         DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support noStFilterBpdu(2)."

    OBJECT docsDevNmAccessIp
        DESCRIPTION
            "It is compliant to recognize the IP address
             255.255.255.255 as referring to any NMS."

    OBJECT docsDevEvReporting
         MIN-ACCESS read-only
         DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support local(0).  An agent need not
             enforce that trap or syslog logging be accompanied
             by local(0) or localVolatile(3) logging."
        ::= { docsDevCompliances 1 }

    docsDevBaseGroup OBJECT-GROUP
        OBJECTS {
            docsDevRole,
            docsDevDateTime,




            docsDevResetNow,
            docsDevSerialNumber,
            docsDevSTPControl
        }
        STATUS      current
        DESCRIPTION
            "A collection of objects providing device status
     and
            control."
        ::= { docsDevGroups 1 }

    docsDevNmAccessGroup OBJECT-GROUP
        OBJECTS {
            docsDevNmAccessIp,
            docsDevNmAccessIpMask,
            docsDevNmAccessCommunity,
            docsDevNmAccessControl,
```

```
        docsDevNmAccessInterfaces,
        docsDevNmAccessStatus
    }
    STATUS      deprecated
    DESCRIPTION
        "A collection of objects for controlling access to SNMP
        objects on cable devices.

        This group has been deprecated because all the
        objects have been deprecated in favor of SNMPv3 and
        Coexistence MIBs."
    ::= { docsDevGroups 2 }

docsDevSoftwareGroup OBJECT-GROUP
    OBJECTS {
        docsDevSwServer,
        docsDevSwFilename,
        docsDevSwAdminStatus,
        docsDevSwOperStatus,
        docsDevSwCurrentVers
    }
    STATUS      deprecated
    DESCRIPTION
        "A collection of objects
 for controlling software
        downloads.

        This group has been deprecated and replaced by
        docsDevSoftwareGroupV2.  Object docsDevSwServer
        has been replaced by docsDevSwServerAddressType
        and docsDevSwServerAddress, and
        docsDevSwServerTransportProtocol has been added to
        support TFTP and HTTP firmware downloads."



    ::= { docsDevGroups 3 }

docsDevServerGroup OBJECT-GROUP
    OBJECTS {
        docsDevServerBootState,
        docsDevServerDhcp,
        docsDevServerTime,
        docsDevServerTftp,
        docsDevServerConfigFile
    }
    STATUS      deprecated
    DESCRIPTION
```

```
            "A collection of objects providing status about server
             provisioning.

             This group has been deprecated and replaced by
             docsDevServerGroupV2.  The objects docsDevServerDhcp,
             docsDevServerTime, and docsDevServerTftp have

        been replaced by docsDevServerDhcpAddressType,
             docsDevServerDhcpAddress, docsDevServerTimeAddressType,
             docsDevServerTimeAddress,
             docsDevServerConfigTftpAddressType, and
             docsDevServerConfigTftpAddress."
        ::= { docsDevGroups 4 }

docsDevEventGroup OBJECT-GROUP
        OBJECTS {
            docsDevEvControl,
            docsDevEvSyslog,
            docsDevEvThrottleAdminStatus,
            docsDevEvThrottleInhibited,
            docsDevEvThrottleThreshold,
            docsDevEvThrottleInterval,
            docsDevEvReporting,
            docsDevEvFirstTime,
            docsDevEvLastTime,
            docsDevEvCounts,
            docsDevEvLevel,
            docsDevEvId,
            docsDevEvText
        }
        STATUS      deprecated
        DESCRIPTION
            "A collection of objects used to control and monitor
             events.

             This group has been deprecated and replaced by
             docsDevEventGroupV2.
      The object docsDevEvSyslog has




             been replaced by docsDevEvSyslogAddressType and
             docsDevEvSyslogAddress, and docsDevEvThrottleInhibited
             has been replaced by
             docsDevEvThrottleThresholdExceeded."
        ::= { docsDevGroups 5 }

docsDevFilterGroup OBJECT-GROUP
```

```
    OBJECTS {
       docsDevFilterLLCUnmatchedAction,
       docsDevFilterIpDefault,
       docsDevFilterLLCStatus,
       docsDevFilterLLCIfIndex,
       docsDevFilterLLCProtocolType,
       docsDevFilterLLCProtocol,
       docsDevFilterLLCMatches,
       docsDevFilterIpControl,
       docsDevFilterIpIfIndex,
       docsDevFilterIpStatus,
       docsDevFilterIpDirection,
       docsDevFilterIpBroadcast,
       docsDevFilterIpSaddr,
       docsDevFilterIpSmask,
       docsDevFilterIpDaddr,
       docsDevFilterIpDmask,
       docsDevFilterIpProtocol,
       docsDevFilterIpSourcePortLow,
        docsDevFilterIpSourcePortHigh,
       docsDevFilterIpDestPortLow,
       docsDevFilterIpDestPortHigh,
       docsDevFilterIpMatches,
       docsDevFilterIpTos,
       docsDevFilterIpTosMask,
       docsDevFilterIpContinue,
       docsDevFilterIpPolicyId,
       docsDevFilterPolicyId,
       docsDevFilterPolicyStatus,
       docsDevFilterPolicyPtr,
       docsDevFilterTosStatus,
       docsDevFilterTosAndMask,
       docsDevFilterTosOrMask
    }
    STATUS      deprecated
    DESCRIPTION
       "A collection of objects to specify filters at the link
        layer and IPv4 layer.

        This group has been deprecated and replaced by various
        groups from the DiffServ MIB."



    ::= { docsDevGroups 6 }

docsDevCpeGroup OBJECT-GROUP
    OBJECTS {
```

```
        docsDevCpeEnroll,
        docsDevCpeIpMax,
        docsDevCpeSource,
        docsDevCpeStatus
       }
      STATUS      deprecated
      DESCRIPTION
         "A collection of objects used to control the number
          and specific values of IPv4 addresses allowed for
          associated Customer Premises Equipment (CPE).

          This group has been deprecated and replaced by
          docsDevInetCpeGroup.  The object docsDevCpeSource has
          been replaced by docsDevCpeInetSource, and
          docsDevCpeStatus has been replaced by
          docsDevCpeInetRowStatus."
      ::= { docsDevGroups 7 }

--
-- RFC 4639 Conformance definitions
--

docsDevGroupsV2       OBJECT IDENTIFIER  ::= { docsDevConformance 3 }
docsDevCompliancesV2  OBJECT IDENTIFIER  ::= { docsDevConformance 4 }

docsDevCmCompliance MODULE-COMPLIANCE
       STATUS  current
       DESCRIPTION
          "The compliance statement for DOCSIS Cable Modems.

           This compliance statement applies to implementations
           of DOCSIS versions that are not
 IPv6 capable."

MODULE DIFFSERV-MIB -- RFC 3289

MANDATORY-GROUPS {
        diffServMIBDataPathGroup,
        diffServMIBClfrGroup,
        diffServMIBClfrElementGroup,
        diffServMIBMultiFieldClfrGroup,
        diffServMIBActionGroup,
        diffServMIBDscpMarkActGroup,
        diffServMIBCounterGroup,
        diffServMIBAlgDropGroup
```

```
        }

OBJECT diffServDataPathStatus  -- same as RFC 3289
      SYNTAX RowStatus { active(1) }
      WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
      DESCRIPTION
         "Support for createAndWait and notInService is not
          required."

OBJECT diffServClfrStatus  -- same as RFC 3289
      SYNTAX RowStatus { active(1) }
      WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
      DESCRIPTION
         "Support for createAndWait and notInService is not
          required."

OBJECT diffServClfrElementStatus  -- same as RFC 3289
      SYNTAX RowStatus { active(1)
 }
      WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
      DESCRIPTION
         "Support for createAndWait and notInService is not
          required."

OBJECT diffServMultiFieldClfrAddrType
      SYNTAX  InetAddressType { ipv4(1) }
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT diffServMultiFieldClfrSrcAddr
      SYNTAX  InetAddress (SIZE(4))
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT diffServMultiFieldClfrDstAddr
      SYNTAX  InetAddress (SIZE(4))
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT diffServAlgDropStatus  -- same as RFC 3289
      SYNTAX RowStatus { active(1) }
      WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
      DESCRIPTION
         "Support for createAndWait and notInService is not
```

required."

OBJECT diffServDataPathStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServClfrElementStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServMultiFieldClfrStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServActionStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServCountActStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServAlgDropStorage
SYNTAX StorageType { volatile(2) }
DESCRIPTION
"An implementation is only required to support volatile storage."

OBJECT diffServAlgDropType

```
        SYNTAX  INTEGER { alwaysDrop(5) }
        DESCRIPTION
            "This object is only used to provide packet
             filtering.  Implementations need not support other
             values of this enumeration."



MODULE  -- docsDev

MANDATORY-GROUPS {
          docsDevBaseGroup,
          docsDevBaseIgmpGroup,
          docsDevBaseMaxCpeGroup,
          docsDevSoftwareGroupV2,
          docsDevServerGroupV2,
          docsDevEventGroupV2,
          docsDevFilterLLCGroup
          }

-- conditionally mandatory groups

GROUP docsDevInetCpeGroup
       DESCRIPTION
          "This group is
 optional in Cable Modems."

OBJECT docsDevDateTime
        MIN-ACCESS read-only
        DESCRIPTION
           "It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl
        SYNTAX INTEGER { noStFilterBpdu(2) }
        MIN-ACCESS read-only
        DESCRIPTION
           "It is compliant to implement this object as read-only.
            Devices need only support noStFilterBpdu(2)."

OBJECT docsDevIgmpModeControl
        SYNTAX INTEGER { passive(1) }
        MIN-ACCESS read-only
        DESCRIPTION
           "It is compliant to implement this object as read-only.
            Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType
        SYNTAX InetAddressType { ipv4(1) }
```

DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevSwServerAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to
support IPv4
addresses."

OBJECT docsDevServerDhcpAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevServerDhcpAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevServerTimeAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevServerTimeAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT docsDevServerConfigTftpAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
"An implementation is only required to support IPv4
addresses."

OBJECT
docsDevServerConfigTftpAddress
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4

```
            addresses."

OBJECT docsDevEvReporting
        MIN-ACCESS read-only
        DESCRIPTION
            "It is compliant to implement this object as read-only.
             Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType
        SYNTAX InetAddressType { ipv4(1) }
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."




OBJECT docsDevEvSyslogAddress
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required to support IPv4
             addresses."

OBJECT docsDevSwServerTransportProtocol
        SYNTAX INTEGER { tftp(1) }
        DESCRIPTION
            "An implementation is only required to support TFTP
             software image downloads."

        ::= { docsDevCompliancesV2
 1 }

docsDevCmtsCompliance MODULE-COMPLIANCE
        STATUS  current
        DESCRIPTION
            "The compliance statement for DOCSIS Cable Modem
             Termination Systems.

             This compliance statement applies to implementations
             of DOCSIS versions that are not IPv6 capable."

MODULE  -- docsDev

-- conditionally mandatory groups

GROUP docsDevBaseGroup
       DESCRIPTION
          "Optional in Cable Modem Termination Systems."
```

```
GROUP docsDevBaseIgmpGroup
      DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevBaseMaxCpeGroup
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems."

GROUP docsDevSoftwareGroupV2
      DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevServerGroupV2
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems."



GROUP docsDevEventGroupV2
       DESCRIPTION
         "Optional in Cable Modem Termination Systems."

GROUP docsDevFilterLLCGroup
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems.  See the Subscriber Management
          MIB for similar CMTS capability."

GROUP docsDevInetCpeGroup
      DESCRIPTION
         "This group MUST NOT be implemented in Cable Modem
          Termination Systems.  See the Subscriber Management
          MIB for similar CMTS capability."

OBJECT docsDevDateTime
       MIN-ACCESS read-only
       DESCRIPTION
         "It is compliant to implement this object as read-only."

OBJECT docsDevSTPControl
       SYNTAX INTEGER { noStFilterBpdu(2) }
       MIN-ACCESS read-only
       DESCRIPTION
         "It is compliant to implement this object as read-only.
          Devices need only support noStFilterBpdu(2)."
```

```
OBJECT docsDevIgmpModeControl
      SYNTAX INTEGER { passive(1)
 }
      MIN-ACCESS read-only
      DESCRIPTION
         "It is compliant to implement this object as read-only.
          Devices need only support passive(1)."

OBJECT docsDevSwServerAddressType
      SYNTAX InetAddressType { ipv4(1) }
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT docsDevSwServerAddress
      SYNTAX  InetAddress (SIZE(4))
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT docsDevEvReporting



      MIN-ACCESS read-only
      DESCRIPTION
         "It is compliant to implement this object as read-only.
          Devices need only support local(0)."

OBJECT docsDevEvSyslogAddressType
      SYNTAX InetAddressType { ipv4(1) }
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT docsDevEvSyslogAddress
      SYNTAX  InetAddress
 (SIZE(4))
      DESCRIPTION
         "An implementation is only required to support IPv4
          addresses."

OBJECT docsDevSwServerTransportProtocol
      SYNTAX INTEGER { tftp(1) }
      DESCRIPTION
         "An implementation is only required to support TFTP
          software image downloads."
```

```
        ::= { docsDevCompliancesV2 2 }

docsDevBaseIgmpGroup OBJECT-GROUP
    OBJECTS {
        docsDevIgmpModeControl
    }
    STATUS      current
    DESCRIPTION
        "An object providing cable device IGMP status and
        control."
    ::= { docsDevGroupsV2 1 }

docsDevBaseMaxCpeGroup OBJECT-GROUP
    OBJECTS {
        docsDevMaxCpe
    }
    STATUS      current
    DESCRIPTION
        "An object providing management of the maximum number of
        CPEs permitted access through a cable modem."
    ::= { docsDevGroupsV2 2 }

docsDevNmAccessExtGroup OBJECT-GROUP
    OBJECTS {

      docsDevNmAccessTrapVersion




    }
    STATUS      deprecated
    DESCRIPTION
        "An object, in addition to the objects in
        docsDevNmAccessGroup, for controlling access to
        SNMP objects on cable devices.

        This group is included in this MIB due to existing
        implementations of docsDevNmAccessTrapVersion in
        DOCSIS cable modems.

        This group has been deprecated because the object has
        been deprecated in favor of SNMPv3 and Coexistence
        MIBs."
    ::= { docsDevGroupsV2 3 }

docsDevSoftwareGroupV2 OBJECT-GROUP
    OBJECTS {
```

```
            docsDevSwFilename,
            docsDevSwAdminStatus,
            docsDevSwOperStatus,
            docsDevSwCurrentVers,
            docsDevSwServerAddressType,
            docsDevSwServerAddress,
            docsDevSwServerTransportProtocol
        }
        STATUS      current
        DESCRIPTION
            "A collection of
    objects for controlling software
             downloads.  This group replaces docsDevSoftwareGroup."
        ::= { docsDevGroupsV2 4 }

docsDevServerGroupV2 OBJECT-GROUP
        OBJECTS {
            docsDevServerBootState,
            docsDevServerDhcpAddressType,
            docsDevServerDhcpAddress,
            docsDevServerTimeAddressType,
            docsDevServerTimeAddress,
            docsDevServerConfigTftpAddressType,
            docsDevServerConfigTftpAddress,
            docsDevServerConfigFile
        }
        STATUS      current
        DESCRIPTION
            "A collection of objects providing status about server
             provisioning.  This group replaces docsDevServerGroup."
        ::= { docsDevGroupsV2 5 }



docsDevEventGroupV2 OBJECT-GROUP
        OBJECTS {
            docsDevEvControl,
            docsDevEvThrottleAdminStatus,
            docsDevEvThrottleThreshold,
            docsDevEvThrottleInterval,
            docsDevEvReporting,
            docsDevEvFirstTime,
             docsDevEvLastTime,
            docsDevEvCounts,
            docsDevEvLevel,
            docsDevEvId,
            docsDevEvText,
            docsDevEvSyslogAddressType,
```

```
        docsDevEvSyslogAddress,
        docsDevEvThrottleThresholdExceeded
    }
    STATUS      current
    DESCRIPTION
        "A collection of objects used to control and monitor
         events.  This group replaces docsDevEventGroup.
         The event reporting mechanism, and more specifically
         docsDevEvReporting, can be used to take advantage of
         the event reporting features of RFC3413 and RFC3014."
    ::= { docsDevGroupsV2 6 }

docsDevFilterLLCGroup OBJECT-GROUP
    OBJECTS {
        docsDevFilterLLCUnmatchedAction,
        docsDevFilterLLCStatus,
        docsDevFilterLLCIfIndex,
        docsDevFilterLLCProtocolType,
        docsDevFilterLLCProtocol,
        docsDevFilterLLCMatches
    }
    STATUS
    current
    DESCRIPTION
        "A collection of objects to specify link layer filters."
    ::= { docsDevGroupsV2 7 }

docsDevInetCpeGroup OBJECT-GROUP
    OBJECTS {
      docsDevCpeEnroll,
      docsDevCpeIpMax,
      docsDevCpeInetSource,
      docsDevCpeInetRowStatus
    }
    STATUS     current



    DESCRIPTION
        "A collection of objects used to control the number
         and specific values of Internet (e.g., IPv4 and IPv6)
         addresses allowed for associated Customer Premises
         Equipment (CPE)."
    ::= { docsDevGroupsV2 8 }

END
```

Found in path(s):

* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-CABLE-DEVICE-MIB
No license file was found, but licenses were detected in source scan.

```
IPSEC-SPD-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE, Integer32,
  Unsigned32, mib-2           FROM SNMPv2-SMI
                              -- [RFC2578]

  TEXTUAL-CONVENTION, RowStatus, TruthValue,
  TimeStamp, StorageType, VariablePointer
                              FROM SNMPv2-TC
                              -- [RFC2579]




  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
                              FROM SNMPv2-CONF
                              -- [RFC2580]

  InterfaceIndex
                              FROM IF-MIB
                              -- [RFC2863]

  diffServMIBMultiFieldClfrGroup, IfDirection,
  diffServMultiFieldClfrNextFree
                              FROM DIFFSERV-MIB
                              -- [RFC3289]

  InetAddressType, InetAddress
                               FROM INET-ADDRESS-MIB
                              -- [RFC4001]

  SnmpAdminString                   FROM SNMP-FRAMEWORK-MIB
                              -- [RFC3411]

  ;

--
-- module identity
--

spdMIB MODULE-IDENTITY
  LAST-UPDATED "200702070000Z"    -- 7 February 2007
  ORGANIZATION "IETF IP Security Policy Working Group"
  CONTACT-INFO "Michael Baer
```

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```
  DESCRIPTION
   "This MIB module defines configuration objects for managing
   IPsec Security Policies.  In general, this MIB can be
   implemented anywhere IPsec security services exist (e.g.,
   bump-in-the-wire, host, gateway, firewall, router, etc.).

   Copyright (C) The IETF Trust (2007).  This version of
   this MIB module is part of RFC 4807; see the RFC itself for
   full legal notices."

-- Revision History

  REVISION     "200702070000Z"    -- 7 February 2007
  DESCRIPTION  "Initial version, published as RFC 4807."

  ::= { mib-2 153 }
```

```
--
-- groups of related objects
--

spdConfigObjects        OBJECT IDENTIFIER
   ::= { spdMIB 1 }
spdNotificationObjects
  OBJECT IDENTIFIER
   ::= { spdMIB 2 }
spdConformanceObjects    OBJECT IDENTIFIER
   ::= { spdMIB 3 }
spdActions              OBJECT IDENTIFIER
   ::= { spdMIB 4 }

--
-- Textual Conventions
--

SpdBooleanOperator ::= TEXTUAL-CONVENTION
  STATUS   current
  DESCRIPTION
     "The SpdBooleanOperator operator is used to specify
      whether sub-components in a decision-making process are




      ANDed or ORed together to decide if the resulting
      expression is true or false."
  SYNTAX      INTEGER { or(1), and(2) }

SpdAdminStatus ::= TEXTUAL-CONVENTION
  STATUS   current
  DESCRIPTION
     "The SpdAdminStatus is used to specify the administrative
      status of an object.  Objects that are disabled MUST NOT
      be used by the packet processing engine."
  SYNTAX      INTEGER { enabled(1), disabled(2) }

SpdIPPacketLogging ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "d"
  STATUS   current
  DESCRIPTION
     "SpdIPPacketLogging specifies
 whether an audit message
      SHOULD be logged if a packet is passed through a Security
      Association (SA) and if some of that packet is included in
      the log event.  A value of '-1' indicates no logging.  A
      value of '0' or greater indicates that logging SHOULD be
```

done and indicates the number of bytes starting at the
beginning of the packet to place in the log. Values greater
than the size of the packet being processed indicate that
the entire packet SHOULD be sent.

Examples:
'-1' no logging
'0' log but do not include any of the packet in the log
'20' log and include the first 20 bytes of the packet
in the log."

SYNTAX Integer32 (-1..65535)

SpdTimePeriod ::= TEXTUAL-CONVENTION
DISPLAY-HINT "31t"
STATUS current
DESCRIPTION
"This property identifies an overall range of calendar dates
and time. In a boolean context, a value
within this time
range, inclusive, is considered true.

This information is encoded as an octet string using
the UTF-8 transformation format described in STD 63,
RFC 3629.

It uses the format suggested in RFC 3060. An octet string

represents a start date and time and an end date and time.
For example:

yyyymmddThhmmss/yyyymmddThhmmss

Where: yyyy = year mm = month dd = day
hh = hour mm = minute ss = second

The first 'yyyymmddThhmmss' sub-string indicates the start
date and time. The second 'yyyymmddThhmmss' sub-string
indicates the end date and time. The character 'T' within
these sub-strings indicates the beginning of the time
portion of each sub-string. The solidus character '/'
separates the start from the end date and time. The end
date and time MUST be subsequent to the start date and

```
time.

        There are also two allowed substitutes for a
        'yyyymmddThhmmss' sub-string: one for the start date and
        time, and one for the end date and time.

        If the start date and time are replaced with the string
        'THISANDPRIOR', this sub-string would indicate the current
        date and time and the previous dates and time.

        If the end date and time are replaced with the string
        'THISANDFUTURE', this sub-string would indicate the current
        date and time and the subsequent dates and time.

        Any of the following SHOULD be considered a
        'wrongValue' error:
        - Setting a value with the end date and time earlier than
          or equal to the start date and time.
        - Setting the start date and time to 'THISANDFUTURE'.
        - Setting the end date and time to 'THISANDPRIOR'."
    REFERENCE "RFC 3060, 3269"
    SYNTAX      OCTET STRING (SIZE (0..31))
--
-- Policy group definitions
--

spdLocalConfigObjects
 OBJECT IDENTIFIER
    ::= { spdConfigObjects 1 }

spdIngressPolicyGroupName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(0..32))
    MAX-ACCESS  read-write
    STATUS      current



    DESCRIPTION
        "This object indicates the global system policy group that
        is to be applied on ingress packets (i.e., arriving at an
        interface from a network) when a given endpoint does not
        contain a policy definition in the spdEndpointToGroupTable.
        Its value can be used as an index into the
        spdGroupContentsTable to retrieve a list of policies.  A
        zero length string indicates that no system-wide policy exists
        and the default policy of 'drop' SHOULD be executed for
        ingress packets until one is imposed by either this object
        or by the endpoint processing a given packet.
```

```
      This object MUST be persistent"
  DEFVAL { "" }
  ::= { spdLocalConfigObjects 1 }

spdEgressPolicyGroupName OBJECT-TYPE
  SYNTAX
   SnmpAdminString (SIZE(0..32))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "This object indicates the policy group containing the
      global system policy that is to be applied on egress
      packets (i.e., packets leaving an interface and entering a
      network) when a given endpoint does not contain a policy
      definition in the spdEndpointToGroupTable.  Its value can
      be used as an index into the spdGroupContentsTable to
      retrieve a list of policies.  A zero length string
      indicates that no system-wide policy exists and the default
      policy of 'drop' SHOULD be executed for egress packets
      until one is imposed by either this object or by the
      endpoint processing a given packet.

      This object MUST be persistent"
  DEFVAL { "" }
  ::= { spdLocalConfigObjects 2 }


spdEndpointToGroupTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdEndpointToGroupEntry
  MAX-ACCESS  not-accessible
   STATUS      current
  DESCRIPTION
     "This table maps policies (groupings) onto an endpoint
      (interface).  A policy group assigned to an endpoint is then
      used to control access to the network traffic passing
      through that endpoint.




      If an endpoint has been configured with a policy group and
      no rule within that policy group matches that packet, the
      default action in this case SHALL be to drop the packet.

      If no policy group has been assigned to an endpoint, then
      the policy group specified by spdIngressPolicyGroupName MUST
      be used on traffic inbound from the network through that
```

endpoint, and the policy group specified by
spdEgressPolicyGroupName MUST be used for traffic outbound
to the network through that endpoint."
::= { spdConfigObjects 2 }

spdEndpointToGroupEntry OBJECT-TYPE
SYNTAX SpdEndpointToGroupEntry
MAX-ACCESS not-accessible
STATUS
current
DESCRIPTION
"A mapping assigning a policy group to an endpoint."

INDEX { spdEndGroupDirection, spdEndGroupInterface }
::= { spdEndpointToGroupTable 1 }

SpdEndpointToGroupEntry ::= SEQUENCE {
spdEndGroupDirection IfDirection,
spdEndGroupInterface InterfaceIndex,
spdEndGroupName SnmpAdminString,
spdEndGroupLastChanged TimeStamp,
spdEndGroupStorageType StorageType,
spdEndGroupRowStatus RowStatus
}

spdEndGroupDirection OBJECT-TYPE
SYNTAX IfDirection
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This object indicates which direction of packets crossing
the interface are associated with which spdEndGroupName
object. Ingress packets, or packets into the device match
when this value is inbound(1). Egress packets or packets
out
of the device match when this value is outbound(2)."
::= { spdEndpointToGroupEntry 1 }

spdEndGroupInterface OBJECT-TYPE
SYNTAX InterfaceIndex
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"This value matches the IF-MIB's ifTable's ifIndex column
and indicates the interface associated with a given

```
        endpoint.  This object can be used to uniquely identify an
        endpoint that a set of policy groups are applied to."
    ::= { spdEndpointToGroupEntry 2 }

spdEndGroupName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The policy group name to apply at this endpoint.  The
        value of the spdEndGroupName object is then used as an
        index into the spdGroupContentsTable to come up with a list
        of rules that MUST be applied at this endpoint."
    ::= { spdEndpointToGroupEntry 3 }

spdEndGroupLastChanged OBJECT-TYPE

    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.

        If this row has not been modified since the last
        re-initialization of the network management subsystem, this
        object SHOULD have a zero value."
    ::= { spdEndpointToGroupEntry 4 }

spdEndGroupStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a storage
        type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdEndpointToGroupEntry 5 }

spdEndGroupRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
```

```
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.

        The value of this object has no effect on whether other
        objects in this conceptual row can be modified.

        This object is considered 'notReady' and MUST NOT be set to
        active until one or more active rows exist within the
        spdGroupContentsTable for the group referenced by the
        spdEndGroupName object."
    ::= { spdEndpointToGroupEntry 6 }

--
-- policy group definition table
--

spdGroupContentsTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdGroupContentsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains a list of rules and/or subgroups
        contained within a given policy group.  For a given value
        of spdGroupContName, the set of rows sharing that value
        forms a 'group'.  The rows in a group MUST be processed
        according to the value of the spdGroupContPriority
 object
        in each row.  The processing MUST be executed starting with
        the lowest value of spdGroupContPriority and in ascending
        order thereafter.

        If an action is executed as the result of the processing of
        a row in a group, the processing of further rows in that
        group MUST stop.  Iterating to the next policy group row by
        finding the next largest spdGroupContPriority object SHALL
        only be done if no actions were run while processing the
        current row for a given packet."
    ::= { spdConfigObjects 3 }

spdGroupContentsEntry OBJECT-TYPE
    SYNTAX      SpdGroupContentsEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Defines a given sub-component within a policy group.  A
```

```
        sub-component is either a rule or another group as
        indicated by spdGroupContComponentType and referenced by
        spdGroupContComponentName."



   INDEX   { spdGroupContName,
 spdGroupContPriority }
   ::= { spdGroupContentsTable 1 }

SpdGroupContentsEntry ::= SEQUENCE {
   spdGroupContName                  SnmpAdminString,
   spdGroupContPriority              Integer32,
   spdGroupContFilter                VariablePointer,
   spdGroupContComponentType             INTEGER,
   spdGroupContComponentName          SnmpAdminString,
   spdGroupContLastChanged           TimeStamp,
   spdGroupContStorageType           StorageType,
   spdGroupContRowStatus             RowStatus
}

spdGroupContName OBJECT-TYPE
   SYNTAX      SnmpAdminString (SIZE(1..32))
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The administrative name of the group associated with this
      row.  A 'group' is formed by all the rows in this table that
      have the same value of this object."
   ::= { spdGroupContentsEntry 1 }

spdGroupContPriority OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)

  MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The priority (sequence number) of the sub-component in
       a group that this row represents.  This value indicates
       the order that each row of this table MUST be processed
       from low to high.  For example, a row with a priority of 0
       is processed before a row with a priority of 1, a 1 before
       a 2, etc."
   ::= { spdGroupContentsEntry 2 }

spdGroupContFilter OBJECT-TYPE
   SYNTAX      VariablePointer
   MAX-ACCESS  read-create
```

STATUS current
DESCRIPTION
"spdGroupContFilter points to a filter that is evaluated
to determine whether the spdGroupContComponentName within
this row is exercised. Managers can use this object to
classify groups of rules, or subgroups, together in order to
achieve a greater degree of control and optimization over
the execution order of the items within the group. If the

filter evaluates to false, the rule or subgroup will be
skipped and the next rule or subgroup will be evaluated
instead. This value can be used to indicate a scalar or
row in a table. When indicating a row in a table, this
value MUST point to the first column instance in that row.

An example usage of this object would be to limit a
group of rules to executing only when the IP packet
being processed is designated to be processed by IKE.
This effectively creates a group of IKE-specific rules.

The following tables and scalars can be pointed to by this
column. All but diffServMultiFieldClfrTable are defined in
this MIB:

diffServMultiFieldClfrTable
spdIpOffsetFilterTable
spdTimeFilterTable
spdCompoundFilterTable
spdTrueFilter
spdIpsoHeaderFilterTable

Implementations MAY choose to provide
support for other
filter tables or scalars.

If this column is set to a VariablePointer value, which
references a non-existent row in an otherwise supported
table, the inconsistentName exception MUST be returned. If
the table or scalar pointed to by the VariablePointer is
not supported at all, then an inconsistentValue exception
MUST be returned.

If, during packet processing, a row in this table is applied
to a packet and the value of this column in that row
references a non-existent or non-supported object, the

```
        packet MUST be dropped."
    REFERENCE "RFC 3289"
    DEFVAL { spdTrueFilterInstance }
    ::= { spdGroupContentsEntry 3 }

spdGroupContComponentType OBJECT-TYPE
    SYNTAX      INTEGER { group(1), rule(2) }
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the spdGroupContComponentName object
        is the name of another group
 defined within the
        spdGroupContentsTable or is the name of a rule defined




        within the spdRuleDefinitionTable."
    DEFVAL { rule }
    ::= { spdGroupContentsEntry 4 }

spdGroupContComponentName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The name of the policy rule or subgroup contained within
        this row, as indicated by the spdGroupContComponentType
        object."
    ::= { spdGroupContentsEntry 5 }

spdGroupContLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified
        or created either through SNMP SETs or by some other
        external means.

        If this row has not been modified since the last
        re-initialization of the network management subsystem,
        this object SHOULD have a zero value."
    ::= { spdGroupContentsEntry
 6 }

spdGroupContStorageType OBJECT-TYPE
    SYNTAX      StorageType
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The storage type for this row.  Rows in this table that
      were created through an external process MAY have a storage
      type of readOnly or permanent.

      For a storage type of permanent, none of the columns have
      to be writable."
  DEFVAL { nonVolatile }
  ::= { spdGroupContentsEntry 7 }

spdGroupContRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.



      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      This object MUST NOT be set to active until the row to
      which the spdGroupContComponentName points to exists and is
      active.

      If active, this object MUST remain active
 unless one of the
      following two conditions are met:

      I.  No active row in spdEndpointToGroupTable exists that
          references this row's group (i.e., indicate this row's
          spdGroupContName).

      II. Or at least one other active row in this table has a
          matching spdGroupContName.

      If neither condition is met, an attempt to set this row to
      something other than active MUST result in an
      inconsistentValue error."
  ::= { spdGroupContentsEntry 8 }



--
-- policy definition table
--
```

```
spdRuleDefinitionTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdRuleDefinitionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table defines a rule by associating a filter
      or a set of filters to an action to be executed."
  ::= { spdConfigObjects 4 }

spdRuleDefinitionEntry OBJECT-TYPE
  SYNTAX      SpdRuleDefinitionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
     "A row defining a particular rule definition.  A rule
      definition binds a filter pointer to an action pointer."
  INDEX   { spdRuleDefName }
  ::= { spdRuleDefinitionTable 1 }

SpdRuleDefinitionEntry ::= SEQUENCE {
  spdRuleDefName                SnmpAdminString,



  spdRuleDefDescription          SnmpAdminString,
  spdRuleDefFilter              VariablePointer,
  spdRuleDefFilterNegated        TruthValue,
  spdRuleDefAction              VariablePointer,
  spdRuleDefAdminStatus          SpdAdminStatus,
  spdRuleDefLastChanged          TimeStamp,
  spdRuleDefStorageType          StorageType,
  spdRuleDefRowStatus            RowStatus
}

spdRuleDefName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "spdRuleDefName is the administratively assigned name of

    the rule referred to by the spdGroupContComponentName
      object."
  ::= { spdRuleDefinitionEntry 1 }

spdRuleDefDescription OBJECT-TYPE
  SYNTAX      SnmpAdminString
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "A user defined string.  This field MAY be used for
      administrative tracking purposes."
  DEFVAL { "" }
  ::= { spdRuleDefinitionEntry 2 }

spdRuleDefFilter OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "spdRuleDefFilter points to a filter that is used to
      evaluate whether the action associated with this row is
      executed or not.  The action will only execute if the
      filter referenced by this object evaluates to TRUE after
      first applying any negation required by the
      spdRuleDefFilterNegated object.

      The following tables and scalars can be pointed to by this
      column.  All but diffServMultiFieldClfrTable
 are defined in
      this MIB.  Implementations MAY choose to provide support
      for other filter tables or scalars as well:

           diffServMultiFieldClfrTable



           spdIpOffsetFilterTable
           spdTimeFilterTable
           spdCompoundFilterTable
           spdTrueFilter

      If this column is set to a VariablePointer value, which
      references a non-existent row in an otherwise supported
      table, the inconsistentName exception MUST be returned.  If
      the table or scalar pointed to by the VariablePointer is
      not supported at all, then an inconsistentValue exception
      MUST be returned.

      If, during packet processing, this column has a value that
      references a non-existent or non-supported object, the
      packet MUST be dropped."
  REFERENCE "RFC 3289"
  ::= { spdRuleDefinitionEntry 3 }
```

```
spdRuleDefFilterNegated OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS
 read-create
  STATUS      current
  DESCRIPTION
     "spdRuleDefFilterNegated specifies whether or not the results of
      the filter referenced by the spdRuleDefFilter object is
      negated."
  DEFVAL { false }
  ::= { spdRuleDefinitionEntry 4 }

spdRuleDefAction OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This column points to the action to be taken.  It MAY,
      but is not limited to, point to a row in one of the
      following tables:

        spdCompoundActionTable
        ipsaSaPreconfiguredActionTable
        ipiaIkeActionTable
        ipiaIpsecActionTable

      It MAY also point to one of the scalar objects beneath
      spdStaticActions.

      If this object is set to a pointer to a row in an
      unsupported (or unknown) table, an inconsistentValue



      error MUST be returned.

      If this object is set to point to a non-existent
 row in an
      otherwise supported table, an inconsistentName error MUST
      be returned.

      If, during packet processing, this column has a value that
      references a non-existent or non-supported object, the
      packet MUST be dropped."
  ::= { spdRuleDefinitionEntry 5 }

spdRuleDefAdminStatus OBJECT-TYPE
  SYNTAX      SpdAdminStatus
```

```
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the current rule definition is considered
         active.  If the value is enabled, the rule MUST be evaluated
         when processing packets.  If the value is disabled, the
         packet processing MUST continue as if this rule's filter
         had effectively failed."
    DEFVAL { enabled }
    ::= { spdRuleDefinitionEntry 6 }

spdRuleDefLastChanged OBJECT-TYPE
    SYNTAX      TimeStamp
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of sysUpTime when this row was last modified

       or created either through SNMP SETs or by some other
         external means.

         If this row has not been modified since the last
         re-initialization of the network management subsystem, this
         object SHOULD have a zero value."
    ::= { spdRuleDefinitionEntry 7 }

spdRuleDefStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
         were created through an external process MAY have a
         storage type of readOnly or permanent.

         For a storage type of permanent, none of the columns have




         to be writable."
    DEFVAL { nonVolatile }
    ::= { spdRuleDefinitionEntry 8 }

spdRuleDefRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
```

```
        "This object indicates the conceptual status of this row.

        The value of this object has no effect on
 whether other
        objects in this conceptual row can be modified.

        This object MUST NOT be set to active until the containing
        conditions, filters, and actions have been defined.  Once
        active, it MUST remain active until no active
        policyGroupContents entries are referencing it.  A failed
        attempt to do so MUST return an inconsistentValue error."
    ::= { spdRuleDefinitionEntry 9 }

--
-- Policy compound filter definition table
--

spdCompoundFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdCompoundFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table defining compound filters and their associated
        parameters.  A row in this table can be pointed to by a
        spdRuleDefFilter object."
    ::= { spdConfigObjects 5 }

spdCompoundFilterEntry OBJECT-TYPE
    SYNTAX      SpdCompoundFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An entry
 in the spdCompoundFilterTable.  Each entry in this
        table represents a compound filter.  A filter defined by
        this table is considered to have a TRUE return value if and
        only if:

        spdCompFiltLogicType is AND and all of the sub-filters
        associated with it, as defined in the spdSubfiltersTable,
        are all true themselves (after applying any required



        negation, as defined by the ficFilterIsNegated object).

        spdCompFiltLogicType is OR and at least one of the
        sub-filters associated with it, as defined in the
```

```
        spdSubfiltersTable, is true itself (after applying any
        required negation, as defined by the ficFilterIsNegated
        object."
    INDEX       { spdCompFiltName }
    ::= { spdCompoundFilterTable 1 }

SpdCompoundFilterEntry ::= SEQUENCE {
    spdCompFiltName                 SnmpAdminString,
    spdCompFiltDescription          SnmpAdminString,
    spdCompFiltLogicType
                SpdBooleanOperator,
    spdCompFiltLastChanged          TimeStamp,
    spdCompFiltStorageType          StorageType,
    spdCompFiltRowStatus            RowStatus
}

spdCompFiltName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A user definable string.  This value is used as an index
        into this table."
    ::= { spdCompoundFilterEntry 1 }

spdCompFiltDescription OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "A user definable string.  This field MAY be used for
        your administrative tracking purposes."
    DEFVAL { "" }
    ::= { spdCompoundFilterEntry 2 }

spdCompFiltLogicType OBJECT-TYPE
    SYNTAX      SpdBooleanOperator
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "Indicates whether the sub-component filters of this
        compound
  filter are functionally ANDed or ORed together."
    DEFVAL { and }
    ::= { spdCompoundFilterEntry 3 }
```

```
spdCompFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of sysUpTime when this row was last modified
      or created either through SNMP SETs or by some other
      external means.

      If this row has not been modified since the last
      re-initialization of the network management subsystem, this
      object SHOULD have a zero value."
  ::= { spdCompoundFilterEntry 4 }

spdCompFiltStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The storage type for this row.  Rows in this table that
      were created through an external process MAY have a
      storage type of readOnly or permanent.

      For a storage type of permanent, none of the columns have
      to be writable."

 DEFVAL { nonVolatile }
  ::= { spdCompoundFilterEntry 5 }

spdCompFiltRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      Once active, it MUST NOT have its value changed if any
      active rows in the spdRuleDefinitionTable are currently
      pointing at this row."
  ::= { spdCompoundFilterEntry 6 }

--
-- Policy filters in a cf table
--
```

```
spdSubfiltersTable OBJECT-TYPE


  SYNTAX      SEQUENCE OF SpdSubfiltersEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table defines a list of filters contained within a
      given compound filter defined in the
      spdCompoundFilterTable."
  ::= { spdConfigObjects 6 }

spdSubfiltersEntry OBJECT-TYPE
  SYNTAX      SpdSubfiltersEntry
   MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An entry in the spdSubfiltersTable.  There is an entry in
      this table for each sub-filter of all compound filters
      present in the spdCompoundFilterTable."
  INDEX       {  spdCompFiltName, spdSubFiltPriority }
  ::= { spdSubfiltersTable 1 }

SpdSubfiltersEntry ::= SEQUENCE {
  spdSubFiltPriority                Integer32,
  spdSubFiltSubfilter               VariablePointer,
  spdSubFiltSubfilterIsNegated      TruthValue,
  spdSubFiltLastChanged             TimeStamp,
  spdSubFiltStorageType             StorageType,
  spdSubFiltRowStatus               RowStatus
}

spdSubFiltPriority OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The priority of a given filter within a compound filter.
      The order of execution is from lowest to highest priority
       value (i.e., priority 0 before priority 1, 1 before 2,
      etc.).  Implementations MAY choose to follow this ordering,
      as set by the manager that created the rows.  This can allow
      a manager to intelligently construct filter lists such that
      faster filters are evaluated first."
  ::= { spdSubfiltersEntry 1 }
```

```
spdSubFiltSubfilter OBJECT-TYPE
  SYNTAX      VariablePointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION


      "The OID of the contained filter.  The value of this
       object is a VariablePointer that references the filter to
       be included in this compound filter.

       The following tables and scalars can be pointed to by this
       column.  All but diffServMultiFieldClfrTable are defined in
       this MIB.  Implementations MAY choose to provide support
       for other filter tables or scalars as well:

            diffServMultiFieldClfrTable
            spdIpsoHeaderFilterTable
             spdIpOffsetFilterTable
            spdTimeFilterTable
            spdCompoundFilterTable
            spdTrueFilter

       If this column is set to a VariablePointer value that
       references a non-existent row in an otherwise supported
       table, the inconsistentName exception MUST be returned.  If
       the table or scalar pointed to by the VariablePointer is
       not supported at all, then an inconsistentValue exception
       MUST be returned.

       If, during packet processing, this column has a value that
       references a non-existent or non-supported object, the
       packet MUST be dropped."
  REFERENCE "RFC 3289"
  ::= { spdSubfiltersEntry 2 }

spdSubFiltSubfilterIsNegated OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "Indicates whether or not the result of applying this sub-filter
      is negated."
  DEFVAL { false }
  ::= { spdSubfiltersEntry
 3 }
```

```
spdSubFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of sysUpTime when this row was last modified
      or created either through SNMP SETs or by some other
      external means.




      If this row has not been modified since the last
      re-initialization of the network management subsystem, this
      object SHOULD have a zero value."
  ::= { spdSubfiltersEntry 4 }

spdSubFiltStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The storage type for this row.  Rows in this table that
      were created through an external process MAY have a
      storage type of readOnly or permanent.

      For a storage type of permanent, none of the columns have
      to be writable."
  DEFVAL { nonVolatile }
  ::= { spdSubfiltersEntry 5 }

spdSubFiltRowStatus OBJECT-TYPE
  SYNTAX
    RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      This object cannot be made active until a filter
      referenced by the spdSubFiltSubfilter object is both
      defined and active.  An attempt to do so MUST result in
      an inconsistentValue error.

      If active, this object MUST remain active unless one of the
```

```
        following two conditions are met:

        I.  No active row in the SpdCompoundFilterTable exists
            that has a matching spdCompFiltName.

        II. Or, at least one other active row in this table has a
            matching spdCompFiltName.

        If neither condition is met, an attempt to set this row to
        something other than active MUST result in an
        inconsistentValue error."
    ::=
  { spdSubfiltersEntry 6 }




--
-- Static Filters
--

spdStaticFilters OBJECT IDENTIFIER ::= { spdConfigObjects 7 }

spdTrueFilter OBJECT-TYPE
      SYNTAX      Integer32 (1)
      MAX-ACCESS  read-only
      STATUS      current
      DESCRIPTION
          "This scalar indicates a (automatic) true result for
           a filter.  That is, this is a filter that is always
           true; it is useful for adding as a default filter for a
           default action or a set of actions."
      ::= { spdStaticFilters 1 }


spdTrueFilterInstance OBJECT IDENTIFIER ::= { spdTrueFilter 0 }



--
-- Policy IP Offset filter definition table
--

spdIpOffsetFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdIpOffsetFilterEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains a list of filter definitions to be
```

```
        used within the spdRuleDefinitionTable or the
        spdSubfiltersTable.

        This type of filter is used
 to compare an administrator
        specified octet string to the octets at a particular
        location in a packet."
  ::= { spdConfigObjects 8 }

spdIpOffsetFilterEntry OBJECT-TYPE
  SYNTAX      SpdIpOffsetFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A definition of a particular filter."
  INDEX       {  spdIpOffFiltName }
  ::= { spdIpOffsetFilterTable 1 }




SpdIpOffsetFilterEntry ::= SEQUENCE {
  spdIpOffFiltName                 SnmpAdminString,
  spdIpOffFiltOffset               Unsigned32,
  spdIpOffFiltType                 INTEGER,
  spdIpOffFiltValue                OCTET STRING,
  spdIpOffFiltLastChanged          TimeStamp,
  spdIpOffFiltStorageType          StorageType,
  spdIpOffFiltRowStatus            RowStatus
}

spdIpOffFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
     "The administrative name for this filter."
  ::= { spdIpOffsetFilterEntry 1 }

spdIpOffFiltOffset OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65535)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This is the byte offset from the front of the entire IP
      packet where the value or arithmetic comparison is done.  A
      value of '0' indicates the first byte of the packet header.
      If this value is greater than the length of the packet, the
```

```
      filter represented by this row should be considered to
      fail."
  ::= { spdIpOffsetFilterEntry 2 }

spdIpOffFiltType OBJECT-TYPE
  SYNTAX INTEGER { equal(1),
                   notEqual(2),
                   arithmeticLess(3),
                   arithmeticGreaterOrEqual(4),
                   arithmeticGreater(5),
                   arithmeticLessOrEqual(6) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This defines the
 various tests that are used when
      evaluating a given filter.

      The various tests definable in this table are as follows:

      equal:
        - Tests if the OCTET STRING, 'spdIpOffFiltValue', matches



          a value in the packet starting at the given offset in
          the packet and comparing the entire OCTET STRING of
          'spdIpOffFiltValue'.  Any values compared this way are
          assumed to be unsigned integer values in network byte
          order of the same length as 'spdIpOffFiltValue'.

      notEqual:
        - Tests if the OCTET STRING, 'spdIpOffFiltValue', does
          not match a value in the packet starting at the given
          offset in the packet and comparing to the entire OCTET
          STRING of 'spdIpOffFiltValue'.  Any values compared
          this way are assumed to be unsigned integer values in
          network byte order of the same length as
          'spdIpOffFiltValue'.


      arithmeticLess:
        - Tests if the OCTET STRING, 'spdIpOffFiltValue', is
          arithmetically less than ('<') the value starting at
          the given offset within the packet.  The value in the
          packet is assumed to be an unsigned integer in network
          byte order of the same length as 'spdIpOffFiltValue'.
```

arithmeticGreaterOrEqual:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than or equal to ('>=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'.

arithmeticGreater:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically greater than ('>') the value starting at the given offset within the packet. The value in the packet is
assumed to be an unsigned integer in network
byte order of the same length as 'spdIpOffFiltValue'.

arithmeticLessOrEqual:
- Tests if the OCTET STRING, 'spdIpOffFiltValue', is arithmetically less than or equal to ('<=') the value starting at the given offset within the packet. The value in the packet is assumed to be an unsigned integer in network byte order of the same length as 'spdIpOffFiltValue'."

::= { spdIpOffsetFilterEntry 3 }

spdIpOffFiltValue OBJECT-TYPE

SYNTAX OCTET STRING (SIZE(1..1024))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"spdIpOffFiltValue is used for match comparisons of a packet at spdIpOffFiltOffset."
::= { spdIpOffsetFilterEntry 4 }

spdIpOffFiltLastChanged OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this
row was last modified
or created either through SNMP SETs or by some other external means.

```
        If this row has not been modified since the last
        re-initialization of the network management subsystem, this
        object SHOULD have a zero value."
    ::= { spdIpOffsetFilterEntry 5 }


spdIpOffFiltStorageType OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The storage type for this row.  Rows in this table that
        were created through an external process MAY have a
        storage type of readOnly or permanent.

        For a storage type of permanent, none of the columns have
        to be writable."
    DEFVAL { nonVolatile }
    ::= { spdIpOffsetFilterEntry 6 }

spdIpOffFiltRowStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "This object indicates the conceptual status of this row.

        The value of
 this object has no effect on whether other
        objects in this conceptual row can be modified.

        If active, this object MUST remain active if it is




        referenced by an active row in another table.  An attempt
        to set it to anything other than active while it is
        referenced by an active row in another table MUST result in
        an inconsistentValue error."
    ::= { spdIpOffsetFilterEntry 7 }


--
-- Time/scheduling filter table
--

spdTimeFilterTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SpdTimeFilterEntry
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Defines a table of filters that can be used to
      effectively enable or disable policies based on a valid
      time range."
  ::= { spdConfigObjects 9 }

spdTimeFilterEntry OBJECT-TYPE
  SYNTAX      SpdTimeFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A row describing a given time frame for which a policy
       is filtered on to activate or deactivate the rule.

      If all the column objects in a row are true for the current
      time, the row evaluates as 'true'.  More explicitly, the
      time matching column objects in a row MUST be logically
      ANDed together to form the boolean true/false for the row."
  INDEX   { spdTimeFiltName }
  ::= { spdTimeFilterTable 1 }

SpdTimeFilterEntry ::= SEQUENCE {
  spdTimeFiltName               SnmpAdminString,
  spdTimeFiltPeriod             SpdTimePeriod,
  spdTimeFiltMonthOfYearMask      BITS,
  spdTimeFiltDayOfMonthMask       OCTET STRING,
  spdTimeFiltDayOfWeekMask        BITS,
  spdTimeFiltTimeOfDayMask        SpdTimePeriod,
  spdTimeFiltLastChanged          TimeStamp,
  spdTimeFiltStorageType          StorageType,
  spdTimeFiltRowStatus            RowStatus
}




spdTimeFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
     "An administratively assigned name for this filter."
  ::= { spdTimeFilterEntry 1 }



spdTimeFiltPeriod OBJECT-TYPE
```

```
  SYNTAX      SpdTimePeriod
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The valid time period for this filter.  This column is
      considered 'true' if the current time is within the range of
      this object."
  DEFVAL { "THISANDPRIOR/THISANDFUTURE" }
  ::= { spdTimeFilterEntry 2 }


spdTimeFiltMonthOfYearMask OBJECT-TYPE
  SYNTAX      BITS { january(0), february(1), march(2),
                     april(3), may(4), june(5), july(6),
                     august(7), september(8), october(9),
                     november(10), december(11) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "A bit mask that indicates acceptable months of the year.
      This column evaluates to 'true' if the current month's bit
      is set."
  DEFVAL { { january, february, march,
 april, may, june, july,
           august, september, october, november, december } }
  ::= { spdTimeFilterEntry 3 }

spdTimeFiltDayOfMonthMask OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(8))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "Defines which days of the month the current time is
      valid for.  It is a sequence of 64 BITS, where each BIT
      represents a corresponding day of the month in forward or
      reverse order.  Starting from the left-most bit, the first
      31 bits identify the day of the month, counting from the
      beginning of the month.  The following 31 bits (bits 32-62)
      indicate the day of the month, counting from the end of the



      month.  For months with fewer than 31 days, the bits that
      correspond to the non-existent days of that month are
      ignored (e.g., for non-leap year Februarys, bits 29-31 and
      60-62 are ignored).

      This column evaluates
```

```
 to 'true' if the current day of the
       month's bit is set.

       For example, a value of 0X'80 00 00 01 00 00 00 00'
       indicates that this column evaluates to true on the first
       and last days of the month.

       The last two bits in the string MUST be zero."
  DEFVAL { 'fffffffffffffffe'H }
  ::= { spdTimeFilterEntry 4 }

spdTimeFiltDayOfWeekMask OBJECT-TYPE
  SYNTAX      BITS { sunday(0), monday(1), tuesday(2),
                     wednesday(3), thursday(4), friday(5),
                     saturday(6) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "A bit mask that defines which days of the week that the current
      time is valid for.  This column evaluates to 'true' if the
      current day of the week's bit is set."
  DEFVAL { { monday, tuesday, wednesday, thursday, friday,
             saturday, sunday } }
  ::= { spdTimeFilterEntry 5 }

spdTimeFiltTimeOfDayMask OBJECT-TYPE
  SYNTAX      SpdTimePeriod
   MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "Indicates the start and end time of the day for which this
      filter evaluates to true.  The date portions of the
      spdTimePeriod TC are ignored for purposes of evaluating this
      mask, and only the time-specific portions are used.

      This column evaluates to 'true' if the current time of day
      is within the range of the start and end times of the day
      indicated by this object."
  DEFVAL { "00000000T000000/00000000T240000" }
  ::= { spdTimeFilterEntry 6 }

spdTimeFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp



  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
      "The value of sysUpTime when this row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem, this

      object SHOULD have a zero value."
  ::= { spdTimeFilterEntry 7 }

spdTimeFiltStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The storage type for this row.  Rows in this table that
       were created through an external process MAY have a storage
       type of readOnly or permanent.

       For a storage type of permanent, none of the columns have
       to be writable."
  DEFVAL { nonVolatile }
  ::= { spdTimeFilterEntry 8 }

spdTimeFiltRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This object indicates the conceptual status of this
       row.

       The value of this object has no effect on whether other
       objects in this conceptual row can be modified.

       If active, this object MUST remain active if it is
       referenced by an active row in another table.  An attempt
       to set
 it to anything other than active while it is
       referenced by an active row in another table MUST result in
       an inconsistentValue error."
  ::= { spdTimeFilterEntry 9 }

--
-- IPSO protection authority filtering
--
```

```
spdIpsoHeaderFilterTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdIpsoHeaderFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains a list of IPSO header filter
      definitions to be used within the spdRuleDefinitionTable or
      the spdSubfiltersTable.  IPSO headers and their values are
      described in RFC 1108."
  REFERENCE "RFC 1108"
  ::= { spdConfigObjects 10 }

spdIpsoHeaderFilterEntry OBJECT-TYPE
  SYNTAX      SpdIpsoHeaderFilterEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A definition of a particular filter."
  INDEX       {  spdIpsoHeadFiltName }
  ::= { spdIpsoHeaderFilterTable 1 }

SpdIpsoHeaderFilterEntry ::= SEQUENCE
 {
  spdIpsoHeadFiltName                 SnmpAdminString,
  spdIpsoHeadFiltType                 BITS,
  spdIpsoHeadFiltClassification       INTEGER,
  spdIpsoHeadFiltProtectionAuth       INTEGER,
  spdIpsoHeadFiltLastChanged          TimeStamp,
  spdIpsoHeadFiltStorageType          StorageType,
  spdIpsoHeadFiltRowStatus            RowStatus
}

spdIpsoHeadFiltName OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The administrative name for this filter."
  ::= { spdIpsoHeaderFilterEntry 1 }

spdIpsoHeadFiltType OBJECT-TYPE
  SYNTAX      BITS { classificationLevel(0),
                     protectionAuthority(1) }
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
     "This object indicates which of the IPSO header field a
      packet is filtered on for this row.  If this object is set
      to classification(0), the spdIpsoHeadFiltClassification




       object indicates how the packet is filtered.  If this object
      is set to protectionAuthority(1), the
      spdIpsoHeadFiltProtectionAuth object indicates how the
      packet is filtered."
  ::= { spdIpsoHeaderFilterEntry 2 }

spdIpsoHeadFiltClassification OBJECT-TYPE
  SYNTAX      INTEGER { topSecret(61), secret(90),
                        confidential(150), unclassified(171) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the IPSO classification header field
      value that the packet MUST have for this row to evaluate to
      'true'.

      The values of these enumerations are defined by RFC 1108."
  REFERENCE "RFC 1108"
  ::= { spdIpsoHeaderFilterEntry 3 }

spdIpsoHeadFiltProtectionAuth OBJECT-TYPE
  SYNTAX      INTEGER { genser(0), siopesi(1), sci(2),
                        nsa(3), doe(4) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "This object indicates the IPSO protection authority header
      field value that the packet MUST have for this row to
      evaluate to 'true'.

      The values of these enumerations are defined by RFC 1108.
      Hence the reason the SMIv2 convention of not using 0 in
      enumerated lists is violated here."
  REFERENCE "RFC 1108"
  ::= { spdIpsoHeaderFilterEntry 4 }

spdIpsoHeadFiltLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

"The value of sysUpTime when this row was last modified
or created either through SNMP SETs or by some other
external means.

If this row has not been modified since the last
re-initialization of the network management subsystem, this
object SHOULD have a zero value."

::= { spdIpsoHeaderFilterEntry 5 }

spdIpsoHeadFiltStorageType OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS
current
DESCRIPTION
"The storage type for this row. Rows in this table that
were created through an external process MAY have a storage
type of readOnly or permanent.

For a storage type of permanent, none of the columns have
to be writable."
DEFVAL { nonVolatile }
::= { spdIpsoHeaderFilterEntry 6 }

spdIpsoHeadFiltRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object indicates the conceptual status of this row.

The value of this object has no effect on whether other
objects in this conceptual row can be modified.

However, this object MUST NOT be set to active if the
requirements of the spdIpsoHeadFiltType object are not met.
Specifically, if the spdIpsoHeadFiltType bit for
classification(0) is set, the spdIpsoHeadFiltClassification
column MUST have a valid value for the row
status to be set
to active. If the spdIpsoHeadFiltType bit for
protectionAuthority(1) is set, the
spdIpsoHeadFiltProtectionAuth column MUST have a valid
value for the row status to be set to active.

```
        If active, this object MUST remain active if it is
        referenced by an active row in another table.  An attempt
        to set it to anything other than active while it is
        referenced by an active row in another table MUST result in
        an inconsistentValue error."
    ::= { spdIpsoHeaderFilterEntry 7 }

--
-- compound actions table
--

spdCompoundActionTable OBJECT-TYPE



    SYNTAX      SEQUENCE OF SpdCompoundActionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Table used to allow multiple actions to be associated
        with a rule.  It uses the spdSubactionsTable to do this.
        The rows from spdSubactionsTable that are partially indexed
        by spdCompActName form the
 set of compound actions to be
        performed.  The spdCompActExecutionStrategy column in this
        table indicates how those actions are processed."
    ::= { spdConfigObjects 11 }

spdCompoundActionEntry OBJECT-TYPE
    SYNTAX      SpdCompoundActionEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row in the spdCompoundActionTable."
    INDEX   { spdCompActName }
    ::= { spdCompoundActionTable 1 }

SpdCompoundActionEntry ::= SEQUENCE {
    spdCompActName                  SnmpAdminString,
    spdCompActExecutionStrategy         INTEGER,
    spdCompActLastChanged               TimeStamp,
    spdCompActStorageType               StorageType,
    spdCompActRowStatus                 RowStatus
}

spdCompActName OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..32))
    MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
     "This is an administratively assigned name of this
      compound action."
  ::= { spdCompoundActionEntry
 1 }

spdCompActExecutionStrategy OBJECT-TYPE
  SYNTAX      INTEGER { doAll(1),
                        doUntilSuccess(2),
                        doUntilFailure(3) }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates how the sub-actions are executed
      based on the success of the actions as they finish
      executing.



      doAll          - run each sub-action regardless of the
                       exit status of the previous action.
                       This parent action is always
                       considered to have acted successfully.

      doUntilSuccess  - run each sub-action until one succeeds,
                       at which point stop processing the
                       sub-actions within this parent
                       compound action.  If one of the
                       sub-actions did execute successfully,
                       this parent
 action is also considered
                       to have executed successfully.

      doUntilFailure  - run each sub-action until one fails,
                       at which point stop processing the
                       sub-actions within this compound
                       action.  If any sub-action fails, the
                       result of this parent action is
                       considered to have failed."
  DEFVAL { doUntilSuccess }
  ::= { spdCompoundActionEntry 2 }

spdCompActLastChanged OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

```
      "The value of sysUpTime when this row was last modified
       or created either through SNMP SETs or by some other
       external means.

       If this row has not been modified since the last
       re-initialization of the network management subsystem, this
       object SHOULD have a zero value."
  ::= { spdCompoundActionEntry
 3 }

spdCompActStorageType OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The storage type for this row.  Rows in this table that
      were created through an external process MAY have a storage
      type of readOnly or permanent.

      For a storage type of permanent, none of the columns have
      to be writable."
  DEFVAL { nonVolatile }



  ::= { spdCompoundActionEntry 4 }

spdCompActRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.

      Once a row in the spdCompoundActionTable has been made
      active, this object MUST NOT be set to destroy without
      first destroying all the contained rows listed in the
      spdSubactionsTable."
   ::= { spdCompoundActionEntry 5 }



--
-- actions contained within a compound action
--
```

```
spdSubactionsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SpdSubactionsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains a list of the sub-actions within a
      given compound action.  Compound actions executing these
      actions MUST execute them in series based on the
      spdSubActPriority value, with the lowest value executing
      first."
  ::= { spdConfigObjects 12 }

spdSubactionsEntry OBJECT-TYPE
  SYNTAX      SpdSubactionsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A row containing a reference to a given compound-action
      sub-action."
  INDEX   { spdCompActName, spdSubActPriority }
  ::= { spdSubactionsTable 1 }

SpdSubactionsEntry ::= SEQUENCE {
  spdSubActPriority                Integer32,
  spdSubActSubActionName
  VariablePointer,



  spdSubActLastChanged              TimeStamp,
  spdSubActStorageType              StorageType,
  spdSubActRowStatus                RowStatus
}

spdSubActPriority OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The priority of a given sub-action within a compound
      action.  The order in which sub-actions MUST be executed
      are based on the value from this column, with the lowest
      numeric value executing first (i.e., priority 0 before
      priority 1, 1 before 2, etc.)."
  ::= { spdSubactionsEntry 1 }

spdSubActSubActionName OBJECT-TYPE
  SYNTAX      VariablePointer
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This column points to the action to be taken.  It MAY,
      but is not limited to, point to a row in one of the
      following tables:

        spdCompoundActionTable
  - Allowing recursion
        ipsaSaPreconfiguredActionTable
        ipiaIkeActionTable
        ipiaIpsecActionTable

      It MAY also point to one of the scalar objects beneath
      spdStaticActions.

      If this object is set to a pointer to a row in an
      unsupported (or unknown) table, an inconsistentValue
      error MUST be returned.

      If this object is set to point to a non-existent row in
      an otherwise supported table, an inconsistentName error
      MUST be returned.

      If, during packet processing, this column has a value that
      references a non-existent or non-supported object, the
      packet MUST be dropped."
  ::= { spdSubactionsEntry 2 }

spdSubActLastChanged OBJECT-TYPE



  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of sysUpTime when this row was last modified
      or created either through SNMP SETs or by some other
      external
 means.

      If this row has not been modified since the last
      re-initialization of the network management subsystem, this
      object SHOULD have a zero value."
  ::= { spdSubactionsEntry 3 }

spdSubActStorageType OBJECT-TYPE
```

```
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The storage type for this row.  Rows in this table that
      were created through an external process MAY have a storage
      type of readOnly or permanent.

      For a storage type of permanent, none of the columns have
      to be writable."
  DEFVAL { nonVolatile }
  ::= { spdSubactionsEntry 4 }

spdSubActRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object indicates the conceptual status of this row.

      The value of this object has no effect on whether other
      objects in this conceptual row can be modified.


  If active, this object MUST remain active unless one of the
      following two conditions are met.  An attempt to set it to
      anything other than active while the following conditions
      are not met MUST result in an inconsistentValue error.  The
      two conditions are:

      I.  No active row in the spdCompoundActionTable exists
          which has a matching spdCompActName.

      II. Or, at least one other active row in this table has a
          matching spdCompActName."



  ::= { spdSubactionsEntry 5 }

--
-- Static Actions
--

-- these are static actions that can be pointed to by the
-- spdRuleDefAction or the spdSubActSubActionName objects to
-- drop, accept, or reject packets.
```

```
spdStaticActions OBJECT IDENTIFIER ::= { spdConfigObjects 13 }

spdDropAction    OBJECT-TYPE
  SYNTAX      Integer32 (1)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "This scalar indicates that a packet MUST be dropped
       and SHOULD
 NOT have action/packet logging."
  ::= { spdStaticActions 1 }

spdDropActionLog OBJECT-TYPE
  SYNTAX      Integer32 (1)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "This scalar indicates that a packet MUST be dropped
       and SHOULD have action/packet logging."
  ::= { spdStaticActions 2 }

spdAcceptAction OBJECT-TYPE
  SYNTAX      Integer32 (1)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "This Scalar indicates that a packet MUST be accepted
       (pass-through) and SHOULD NOT have action/packet logging."
  ::= { spdStaticActions 3 }

spdAcceptActionLog OBJECT-TYPE
  SYNTAX      Integer32 (1)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "This scalar indicates that a packet MUST be accepted
       (pass-through) and SHOULD have action/packet logging."
  ::= { spdStaticActions 4 }




--
--
-- Notification objects information
--
--
```

```
spdNotificationVariables OBJECT IDENTIFIER
 ::=
  { spdNotificationObjects 1 }

spdNotifications OBJECT IDENTIFIER ::=
  { spdNotificationObjects 0 }

spdActionExecuted OBJECT-TYPE
   SYNTAX      VariablePointer
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
       "Points to the action instance that was executed that
        resulted in the notification being sent."
   ::= { spdNotificationVariables 1 }

spdIPEndpointAddType OBJECT-TYPE
   SYNTAX      InetAddressType
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
       "Contains the address type for the interface that the
        notification triggering packet is passing through."
   ::= { spdNotificationVariables 2 }

spdIPEndpointAddress OBJECT-TYPE
   SYNTAX      InetAddress
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
       "Contains the interface address for the interface that the
        notification triggering packet is passing through.

        The format of
  this object is specified by the
        spdIPEndpointAddType object."
   ::= { spdNotificationVariables 3 }

spdIPSourceType OBJECT-TYPE
   SYNTAX      InetAddressType
   MAX-ACCESS  accessible-for-notify
   STATUS      current
   DESCRIPTION
       "Contains the source address type of the packet that




        triggered the notification."
```

```
  ::= { spdNotificationVariables 4 }

spdIPSourceAddress OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "Contains the source address of the packet that
      triggered the notification.

      The format of this object is specified by the
      spdIPSourceType object."
  ::= { spdNotificationVariables 5 }

spdIPDestinationType OBJECT-TYPE
  SYNTAX      InetAddressType
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "Contains the destination address type of the packet
      that triggered the notification."
   ::= { spdNotificationVariables 6 }

spdIPDestinationAddress OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "Contains the destination address of the packet that
      triggered the notification.

      The format of this object is specified by the
      spdIPDestinationType object."
  ::= { spdNotificationVariables 7 }

spdPacketDirection OBJECT-TYPE
  SYNTAX      IfDirection
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "Indicates if the packet that triggered the action in
      questions was ingress (inbound) or egress (outbound)."
  ::= { spdNotificationVariables 8 }

spdPacketPart OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE (0..65535))
  MAX-ACCESS  accessible-for-notify
```

```
  STATUS      current
  DESCRIPTION
      "spdPacketPart is the front part of the full IP packet that
       triggered this notification.  The initial size limit
is
       determined by the smaller of the size, indicated by:

       I.  The value of the object with the TC syntax
           'SpdIPPacketLogging' that indicated the packet SHOULD be
           logged and

       II. The size of the triggering packet.

       The final limit is determined by the SNMP packet size when
       sending the notification.  The maximum size that can be
       included will be the smaller of the initial size, given the
       above, and the length that will fit in a single SNMP
       notification packet after the rest of the notification's
       objects and any other necessary packet data (headers encoding,
       etc.) have been included in the packet."
  ::= { spdNotificationVariables 9 }

spdActionNotification NOTIFICATION-TYPE
  OBJECTS { spdActionExecuted, spdIPEndpointAddType,
            spdIPEndpointAddress,
            spdIPSourceType, spdIPSourceAddress,
            spdIPDestinationType,
            spdIPDestinationAddress,
             spdPacketDirection }
  STATUS  current
  DESCRIPTION
      "Notification that an action was executed by a rule.
       Only actions with logging enabled will result in this
       notification getting sent.  The object includes the
       spdActionExecuted object, which will indicate which action
       was executed within the scope of the rule.  Additionally,
       the spdIPSourceType, spdIPSourceAddress,
       spdIPDestinationType, and spdIPDestinationAddress objects
       are included to indicate the packet source and destination
       of the packet that triggered the action.  Finally, the
       spdIPEndpointAddType, spdIPEndpointAddress, and
       spdPacketDirection objects indicate which interface the
       executed action was associated with, and if the packet was
       ingress or egress through the endpoint.

       A spdActionNotification SHOULD be limited to a maximum of
```

```
        one notification sent per minute
    for any action
        notifications that do not have any other configuration
        controlling their send rate.



        Note that compound actions with multiple executed
        sub-actions may result in multiple notifications being sent
        from a single rule execution."
    ::= { spdNotifications 1 }

spdPacketNotification NOTIFICATION-TYPE
    OBJECTS { spdActionExecuted, spdIPEndpointAddType,
              spdIPEndpointAddress,
              spdIPSourceType, spdIPSourceAddress,
              spdIPDestinationType,
              spdIPDestinationAddress,
              spdPacketDirection,
              spdPacketPart }
    STATUS  current
    DESCRIPTION
       "Notification that a packet passed through a Security
        Association (SA).  Only SAs created by actions with packet
        logging enabled will result in this notification getting
        sent.  The objects sent MUST include the spdActionExecuted,
        which will indicate which action was executed
    within the
        scope of the rule.  Additionally, the spdIPSourceType,
        spdIPSourceAddress, spdIPDestinationType, and
        spdIPDestinationAddress objects MUST be included to
        indicate the packet source and destination of the packet
        that triggered the action.  The spdIPEndpointAddType,
        spdIPEndpointAddress, and spdPacketDirection objects are
        included to indicate which endpoint the packet was
        associated with.  Finally, spdPacketPart is included to
        enable sending a variable sized part of the front of the
        packet with the size dependent on the value of the object of
        TC syntax 'SpdIPPacketLogging', which indicated that logging
        should be done.

        A spdPacketNotification SHOULD be limited to a maximum of
        one notification sent per minute for any action
        notifications that do not have any other configuration
        controlling their send rate.

        An action notification
```

```
 SHOULD be limited to a maximum of
       one notification sent per minute for any action
       notifications that do not have any other configuration
       controlling their send rate."
  ::= { spdNotifications 2 }


--
--
-- Conformance information



--
--

spdCompliances OBJECT IDENTIFIER
  ::= { spdConformanceObjects 1 }
spdGroups OBJECT IDENTIFIER
  ::= { spdConformanceObjects 2 }

--
-- Compliance statements
--
--
spdRuleFilterFullCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
      "The compliance statement for SNMP entities that include
       an IPsec MIB implementation with Endpoint, Rules, and
       filters support.

       When this MIB is implemented with support for read-create,
       then such an implementation can claim full compliance.  Such
       devices can then be both monitored and configured with this
       MIB."

  MODULE -- This Module
     MANDATORY-GROUPS { spdEndpointGroup,

    spdGroupContentsGroup,
                  spdRuleDefinitionGroup,
                  spdStaticFilterGroup,
                  spdStaticActionGroup ,
                  diffServMIBMultiFieldClfrGroup }

     GROUP spdIpsecSystemPolicyNameGroup
     DESCRIPTION
```

```
    "This group is mandatory for IPsec Policy
     implementations that support a system policy group
     name."

GROUP spdCompoundFilterGroup
DESCRIPTION
    "This group is mandatory for IPsec Policy
     implementations that support compound filters."

GROUP spdIPOffsetFilterGroup
DESCRIPTION
    "This group is mandatory for IPsec Policy
     implementations that support IP Offset filters.  In
     general, this SHOULD be supported by a compliant IPsec



     Policy implementation."

GROUP spdTimeFilterGroup
DESCRIPTION
    "This group is mandatory for IPsec Policy
      implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup
DESCRIPTION
    "This group is mandatory for IPsec Policy
     implementations that support IPSO Header filters."

GROUP  spdCompoundActionGroup
DESCRIPTION
    "This group is mandatory for IPsec Policy
     implementations that support compound actions."

OBJECT      spdEndGroupLastChanged
MIN-ACCESS  not-accessible
DESCRIPTION
    "This object not required for compliance."

OBJECT      spdGroupContComponentType
SYNTAX      INTEGER {
        rule(2)
}
DESCRIPTION
    "Support of the value group(1) is only required for
     implementations that support Policy Groups within
     Policy Groups."
```

OBJECT spdGroupContLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdRuleDefLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdCompFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdSubFiltLastChanged
MIN-ACCESS not-accessible

DESCRIPTION
"This object not required for compliance."

OBJECT spdIpOffFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdTimeFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdIpsoHeadFiltLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdCompActLastChanged
MIN-ACCESS
not-accessible
DESCRIPTION
"This object not required for compliance."

OBJECT spdSubActLastChanged
MIN-ACCESS not-accessible
DESCRIPTION
"This object not required for compliance."

```
      OBJECT      diffServMultiFieldClfrNextFree
      MIN-ACCESS  not-accessible
      DESCRIPTION
         "This object is not required for compliance."

   ::= { spdCompliances 1 }


spdLoggingCompliance MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
      "The compliance statement for SNMP entities that support
       sending notifications when actions are invoked."
   MODULE -- This Module
      MANDATORY-GROUPS { spdActionLoggingObjectGroup,
                         spdActionNotificationGroup }

   ::= { spdCompliances 2 }

--



-- ReadOnly Compliances
--
spdRuleFilterReadOnlyCompliance MODULE-COMPLIANCE
   STATUS      current
   DESCRIPTION
      "The compliance statement for SNMP entities that include
        an IPsec MIB implementation with Endpoint, Rules, and
       filters support.

       If this MIB is implemented without support for read-create
       (i.e., in read-only), it is not in full compliance, but it
       can claim read-only compliance.  Such a device can then be
       monitored, but cannot be configured with this MIB."

   MODULE -- This Module
      MANDATORY-GROUPS { spdEndpointGroup,
                         spdGroupContentsGroup,
                         spdRuleDefinitionGroup,
                         spdStaticFilterGroup,
                         spdStaticActionGroup ,
                         diffServMIBMultiFieldClfrGroup }

      GROUP spdIpsecSystemPolicyNameGroup
      DESCRIPTION
```

"This group is mandatory for IPsec Policy
implementations that support a system policy group
name."

GROUP spdCompoundFilterGroup
DESCRIPTION
"This group is mandatory for IPsec Policy
implementations that support compound filters."

GROUP spdIPOffsetFilterGroup
DESCRIPTION
"This group is mandatory for IPsec Policy
implementations that support IP Offset filters. In
general, this SHOULD be supported by a compliant IPsec
Policy implementation."

GROUP spdTimeFilterGroup
DESCRIPTION
"This group is mandatory for IPsec Policy
implementations that support time filters."

GROUP spdIpsoHeaderFilterGroup
DESCRIPTION
"This group is mandatory for IPsec Policy

implementations that support IPSO Header filters."

GROUP spdCompoundActionGroup
DESCRIPTION
"This group is mandatory for IPsec Policy
implementations that support compound actions."

OBJECT spdCompActExecutionStrategy
MIN-ACCESS read-only
DESCRIPTION
"Write access is not
required."

OBJECT spdCompActLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdCompActRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompActStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltDescription
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdCompFiltLogicType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdCompFiltStorageType

MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdEgressPolicyGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdEndGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdEndGroupStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContComponentName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContComponentType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContFilter
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdGroupContLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdGroupContRowStatus
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdGroupContStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIngressPolicyGroupName
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltLastChanged

DESCRIPTION
"This object is not required for compliance."

OBJECT spdIpOffFiltOffset
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpOffFiltValue
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltClassification
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltLastChanged
DESCRIPTION

"This object is not required for compliance."

OBJECT spdIpsoHeadFiltProtectionAuth
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdIpsoHeadFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdIpsoHeadFiltType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefAction
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefAdminStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefDescription
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefFilter
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefFilterNegated
MIN-ACCESS
read-only
DESCRIPTION
"Write access is not required."

OBJECT spdRuleDefLastChanged

DESCRIPTION
"This object is not required for compliance."

OBJECT spdRuleDefRowStatus
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT spdRuleDefStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdSubActRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubActSubActionName
MIN-ACCESS read-only
DESCRIPTION
"Write access
is not required."

OBJECT spdSubFiltLastChanged
DESCRIPTION
"This object is not required for compliance."

OBJECT spdSubFiltRowStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubFiltStorageType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT spdSubFiltSubfilter
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

```
    OBJECT      spdSubFiltSubfilterIsNegated
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltDayOfMonthMask
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltDayOfWeekMask
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT
    spdTimeFiltLastChanged
    DESCRIPTION
        "This object is not required for compliance."

    OBJECT      spdTimeFiltMonthOfYearMask
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltPeriod
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltRowStatus
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltTimeOfDayMask
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

    OBJECT      spdTimeFiltStorageType
    MIN-ACCESS  read-only
    DESCRIPTION
        "Write access is not required."

::= { spdCompliances 3 }
```

```
--
--
-- Compliance Groups Definitions
--

--
-- Endpoint, Rule, Filter Compliance Groups
--

spdEndpointGroup OBJECT-GROUP
  OBJECTS {
     spdEndGroupName,
 spdEndGroupLastChanged,
     spdEndGroupStorageType, spdEndGroupRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy
      Endpoint Table."
  ::= { spdGroups 1 }

spdGroupContentsGroup OBJECT-GROUP
  OBJECTS {
     spdGroupContComponentType, spdGroupContFilter,
     spdGroupContComponentName, spdGroupContLastChanged,
     spdGroupContStorageType, spdGroupContRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy
      Group Contents Table."
  ::= { spdGroups 2 }

spdIpsecSystemPolicyNameGroup OBJECT-GROUP
  OBJECTS {
     spdIngressPolicyGroupName,
     spdEgressPolicyGroupName
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects represent the System
      Policy Group Names."
  ::= { spdGroups 3}

spdRuleDefinitionGroup OBJECT-GROUP
  OBJECTS {
```

```
        spdRuleDefDescription, spdRuleDefFilter,
        spdRuleDefFilterNegated, spdRuleDefAction,
        spdRuleDefAdminStatus, spdRuleDefLastChanged,



        spdRuleDefStorageType, spdRuleDefRowStatus
    }
    STATUS current
    DESCRIPTION
        "This group is made up of objects from the IPsec Policy Rule
        Definition Table."
    ::= { spdGroups 4 }

spdCompoundFilterGroup OBJECT-GROUP
    OBJECTS {
        spdCompFiltDescription, spdCompFiltLogicType,
        spdCompFiltLastChanged, spdCompFiltStorageType,
        spdCompFiltRowStatus, spdSubFiltSubfilter,
        spdSubFiltSubfilterIsNegated, spdSubFiltLastChanged,
        spdSubFiltStorageType, spdSubFiltRowStatus
    }
    STATUS current
    DESCRIPTION
        "This group is made up of objects from the IPsec Policy
        Compound Filter Table and Sub-Filter Table Group."
    ::= { spdGroups 5 }

spdStaticFilterGroup OBJECT-GROUP
        OBJECTS { spdTrueFilter }
    STATUS current
    DESCRIPTION
        "The static filter group.  Currently this is just
 a true
        filter."
    ::= { spdGroups 6 }

spdIPOffsetFilterGroup OBJECT-GROUP
    OBJECTS {
        spdIpOffFiltOffset, spdIpOffFiltType,
        spdIpOffFiltValue, spdIpOffFiltLastChanged,
        spdIpOffFiltStorageType, spdIpOffFiltRowStatus
    }

    STATUS current
    DESCRIPTION
        "This group is made up of objects from the IPsec Policy IP
        Offset Filter Table."
```

```
  ::= { spdGroups 7 }

spdTimeFilterGroup OBJECT-GROUP
  OBJECTS {
     spdTimeFiltPeriod,
     spdTimeFiltMonthOfYearMask, spdTimeFiltDayOfMonthMask,
     spdTimeFiltDayOfWeekMask, spdTimeFiltTimeOfDayMask,




     spdTimeFiltLastChanged,
     spdTimeFiltStorageType, spdTimeFiltRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy Time
      Filter Table."
  ::= { spdGroups 8 }

spdIpsoHeaderFilterGroup OBJECT-GROUP
  OBJECTS {
     spdIpsoHeadFiltType, spdIpsoHeadFiltClassification,
     spdIpsoHeadFiltProtectionAuth,
 spdIpsoHeadFiltLastChanged,
     spdIpsoHeadFiltStorageType, spdIpsoHeadFiltRowStatus
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy IPSO
      Header Filter Table."
  ::= { spdGroups 9 }

--
-- action compliance groups
--

spdStaticActionGroup OBJECT-GROUP
  OBJECTS {
     spdDropAction, spdAcceptAction,
     spdDropActionLog, spdAcceptActionLog
  }
  STATUS current
  DESCRIPTION
     "This group is made up of objects from the IPsec Policy
      Static Actions."
  ::= { spdGroups 10 }

spdCompoundActionGroup OBJECT-GROUP
```

```
  OBJECTS {
     spdCompActExecutionStrategy, spdCompActLastChanged,
     spdCompActStorageType,

     spdCompActRowStatus, spdSubActSubActionName,
     spdSubActLastChanged, spdSubActStorageType,
     spdSubActRowStatus
  }
  STATUS current
  DESCRIPTION
     "The IPsec Policy Compound Action Table and Actions In




      Compound Action Table
 Group."
  ::= { spdGroups 11 }

spdActionLoggingObjectGroup OBJECT-GROUP
  OBJECTS {
     spdActionExecuted,
     spdIPEndpointAddType,   spdIPEndpointAddress,
     spdIPSourceType,        spdIPSourceAddress,
     spdIPDestinationType,   spdIPDestinationAddress,
     spdPacketDirection,     spdPacketPart
  }
  STATUS current
  DESCRIPTION
     "This group is made up of all the Notification objects for
     this MIB."
  ::= { spdGroups 12 }

spdActionNotificationGroup NOTIFICATION-GROUP
  NOTIFICATIONS {
     spdActionNotification,
     spdPacketNotification
  }
  STATUS current
  DESCRIPTION
     "This group is made up of all the Notifications for this MIB."
  ::= { spdGroups 13 }


END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-MIB
```

No license file was found, but licenses were detected in source scan.

```
DIFFSERV-MIB DEFINITIONS ::= BEGIN

  IMPORTS
  Unsigned32, Counter64, MODULE-IDENTITY, OBJECT-TYPE,
  OBJECT-IDENTITY, zeroDotZero, mib-2
      FROM SNMPv2-SMI
  TEXTUAL-CONVENTION, RowStatus, RowPointer,
  StorageType, AutonomousType
      FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP
      FROM SNMPv2-CONF
  ifIndex, InterfaceIndexOrZero
     FROM IF-MIB
  InetAddressType, InetAddress, InetAddressPrefixLength,
  InetPortNumber
     FROM INET-ADDRESS-MIB
  BurstSize
     FROM INTEGRATED-SERVICES-MIB
  Dscp, DscpOrAny
     FROM DIFFSERV-DSCP-TC;

diffServMib MODULE-IDENTITY
  LAST-UPDATED "200202070000Z"
  ORGANIZATION "IETF Differentiated Services WG"
  CONTACT-INFO
    "       Fred Baker
            Cisco Systems
            1121 Via Del Rey
            Santa Barbara, CA 93117, USA
            E-mail: fred@cisco.com

            Kwok Ho Chan

           Nortel Networks
            600 Technology Park Drive
            Billerica, MA 01821, USA
            E-mail: khchan@nortelnetworks.com

            Andrew Smith
            Harbour Networks
            Jiuling Building



            21 North Xisanhuan Ave.
            Beijing, 100089, PRC
            E-mail: ah_smith@acm.org
```

```
            Differentiated Services Working Group:
            diffserv@ietf.org"
    DESCRIPTION
      "This MIB defines the objects necessary to manage a device that
      uses the Differentiated Services Architecture described in RFC
      2475. The Conceptual Model of a Differentiated Services Router
      provides supporting information on how such a router is modeled."
    REVISION "200202070000Z"
    DESCRIPTION
      "Initial version, published as RFC 3289."
    ::= { mib-2 97 }

diffServMIBObjects     OBJECT IDENTIFIER ::= { diffServMib 1 }
diffServMIBConformance OBJECT IDENTIFIER ::= { diffServMib 2 }
diffServMIBAdmin
       OBJECT IDENTIFIER ::= { diffServMib 3 }

IndexInteger ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS    current
    DESCRIPTION
      "An integer which may be used as a table index."
    SYNTAX    Unsigned32 (1..4294967295)

IndexIntegerNextFree ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS    current
    DESCRIPTION
      "An integer which may be used as a new Index in a table.

      The special value of 0 indicates that no more new entries can be
      created in the relevant table.

      When a MIB is used for configuration, an object with this SYNTAX
      always contains a legal value (if non-zero) for an index that is
      not currently used in the relevant table. The Command Generator
      (Network Management Application) reads this variable and uses the
      (non-zero) value read when creating a new row with an SNMP SET.
      When the SET is performed, the Command Responder (agent) must
      determine whether the value is indeed
   still unused; Two Network
      Management Applications may attempt to create a row
      (configuration entry) simultaneously and use the same value. If
      it is currently unused, the SET succeeds and the Command
      Responder (agent) changes the value of this object, according to
      an implementation-specific algorithm.  If the value is in use,
```

```
      however, the SET fails.  The Network Management Application must
      then re-read this variable to obtain a new usable value.

      An OBJECT-TYPE definition using this SYNTAX MUST specify the
      relevant table for which the object is providing this
      functionality."
    SYNTAX   Unsigned32 (0..4294967295)

IfDirection ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
      "IfDirection specifies a direction of data travel on an
      interface. 'inbound' traffic is operated on during reception from
      the interface, while 'outbound' traffic is operated on prior to
      transmission on
 the interface."
    SYNTAX  INTEGER {
              inbound(1),     -- ingress interface
              outbound(2)     -- egress interface
}

--
-- Data Path
--

diffServDataPath       OBJECT IDENTIFIER ::= { diffServMIBObjects 1 }

--
-- Data Path Table
--
-- The Data Path Table enumerates the Differentiated Services
-- Functional Data Paths within this device.  Each entry in this table
-- is indexed by ifIndex and ifDirection.  Each entry provides the
-- first Differentiated Services Functional Data Path Element to
-- process data flowing along specific data path.  This table should
-- have at most two entries for each interface capable of
-- Differentiated Services processing on this device: ingress and
-- egress.

-- Note that Differentiated Services Functional Data Path Elements
-- linked together using their individual next pointers and anchored by
-- an entry of the diffServDataPathTable constitute a functional data
-- path.
--

diffServDataPathTable OBJECT-TYPE
```

```
  SYNTAX
    SEQUENCE OF DiffServDataPathEntry
  MAX-ACCESS   not-accessible
  STATUS       current



  DESCRIPTION
    "The data path table contains RowPointers indicating the start of
    the functional data path for each interface and traffic direction
    in this device. These may merge, or be separated into parallel
    data paths."
  ::= { diffServDataPath 1 }

diffServDataPathEntry OBJECT-TYPE
  SYNTAX       DiffServDataPathEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the data path table indicates the start of a single
    Differentiated Services Functional Data Path in this device.

    These are associated with individual interfaces, logical or
    physical, and therefore are instantiated by ifIndex. Therefore,
    the interface index must have been assigned, according to the
    procedures applicable to that, before it can be meaningfully
    used. Generally, this means that the interface must
 exist.

    When diffServDataPathStorage is of type nonVolatile, however,
    this may reflect the configuration for an interface whose ifIndex
    has been assigned but for which the supporting implementation is
    not currently present."
  INDEX { ifIndex, diffServDataPathIfDirection }
  ::= { diffServDataPathTable 1 }

DiffServDataPathEntry ::= SEQUENCE  {
  diffServDataPathIfDirection    IfDirection,
  diffServDataPathStart          RowPointer,
  diffServDataPathStorage        StorageType,
  diffServDataPathStatus         RowStatus
}

diffServDataPathIfDirection OBJECT-TYPE
  SYNTAX       IfDirection
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
```

"IfDirection specifies whether the reception or transmission path
for this interface is in view."
::= { diffServDataPathEntry 1 }

diffServDataPathStart OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current

DESCRIPTION
"This selects the first Differentiated Services Functional Data
Path Element to handle traffic for this data path. This
RowPointer should point to an instance of one of:
diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServAlgDropEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates that no
Differentiated Services treatment is performed on traffic of this
data path. A pointer with the value zeroDotZero normally
terminates a functional data path.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServDataPathEntry 2 }

diffServDataPathStorage OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type for this conceptual row. Conceptual rows
having the value 'permanent' need not allow write-access to any
columnar objects in the row."
DEFVAL { nonVolatile }
::= { diffServDataPathEntry 3 }

diffServDataPathStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION

```
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time."
    ::= { diffServDataPathEntry 4 }

--
-- Classifiers
--

diffServClassifier     OBJECT IDENTIFIER ::= { diffServMIBObjects 2 }

--



-- Classifier Table
--
-- The Classifier Table allows multiple classifier elements, of same or
-- different types, to be used together. A classifier must completely
-- classify all packets presented to it. This means that all traffic
-- presented to a classifier must match at least one classifier element
-- within the classifier, with the classifier element parameters
--
 specified by a filter.

-- If there is ambiguity between classifier elements of different
-- classifier, classifier linkage order indicates their precedence; the
-- first classifier in the link is applied to the traffic first.

-- Entries in the classifier element table serves as the anchor for
-- each classification pattern, defined in filter table entries.  Each
-- classifier element table entry also specifies the subsequent
-- downstream Differentiated Services Functional Data Path Element when
-- the classification pattern is satisfied. Each entry in the
-- classifier element table describes one branch of the fan-out
-- characteristic of a classifier indicated in the Informal
-- Differentiated Services Model section 4.1.  A classifier is composed
-- of one or more classifier elements.

diffServClfrNextFree OBJECT-TYPE
    SYNTAX       IndexIntegerNextFree
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This object contains an unused value for diffServClfrId,
 or a
      zero to indicate that none exist."
    ::= { diffServClassifier 1 }
```

```
diffServClfrTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServClfrEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table enumerates all the diffserv classifier functional
    data path elements of this device.  The actual classification
    definitions are defined in diffServClfrElementTable entries
    belonging to each classifier.

    An entry in this table, pointed to by a RowPointer specifying an
    instance of diffServClfrStatus, is frequently used as the name
    for a set of classifier elements, which all use the index
    diffServClfrId. Per the semantics of the classifier element
    table, these entries constitute one or more unordered sets of
    tests which may be simultaneously applied to a message to



    classify it.

    The primary function of this table is to ensure that the value of
    diffServClfrId
 is unique before attempting to use it in creating
    a diffServClfrElementEntry. Therefore, the diffServClfrEntry must
    be created on the same SET as the diffServClfrElementEntry, or
    before the diffServClfrElementEntry is created."
  ::= { diffServClassifier 2 }

diffServClfrEntry OBJECT-TYPE
  SYNTAX      DiffServClfrEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the classifier table describes a single classifier.
    All classifier elements belonging to the same classifier use the
    classifier's diffServClfrId as part of their index."
  INDEX { diffServClfrId }
  ::= { diffServClfrTable 1 }

DiffServClfrEntry ::= SEQUENCE  {
  diffServClfrId             IndexInteger,
  diffServClfrStorage        StorageType,
  diffServClfrStatus         RowStatus
}

diffServClfrId OBJECT-TYPE
  SYNTAX      IndexInteger
```

```
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION

    "An index that enumerates the classifier entries.  Managers
    should obtain new values for row creation in this table by
    reading diffServClfrNextFree."
  ::= { diffServClfrEntry 1 }

diffServClfrStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServClfrEntry 2 }

diffServClfrStatus OBJECT-TYPE



  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
   ::= { diffServClfrEntry 3 }

--
-- Classifier Element Table
--
diffServClfrElementNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServClfrElementId,
    or a zero to indicate that none exist."
  ::= { diffServClassifier 3 }

diffServClfrElementTable OBJECT-TYPE
```

```
  SYNTAX      SEQUENCE OF DiffServClfrElementEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The classifier element table enumerates the relationship between
    classification patterns and subsequent downstream Differentiated
    Services Functional Data Path elements.
    diffServClfrElementSpecific points to a filter that specifies the
    classification parameters. A classifier may use filter tables of
    different types together.

    One example of a filter table defined in this MIB is
    diffServMultiFieldClfrTable, for
IP Multi-Field Classifiers
    (MFCs). Such an entry might identify anything from a single
    micro-flow (an identifiable sub-session packet stream directed
    from one sending transport to the receiving transport or
    transports), or aggregates of those such as the traffic from a
    host, traffic for an application, or traffic between two hosts
    using an application and a given DSCP. The standard Behavior
    Aggregate used in the Differentiated Services Architecture is
    encoded as a degenerate case of such an aggregate - the traffic
    using a particular DSCP value.

    Filter tables for other filter types may be defined elsewhere."



  ::= { diffServClassifier 4 }

diffServClfrElementEntry OBJECT-TYPE
  SYNTAX      DiffServClfrElementEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the classifier element table describes a single
    element of the classifier."
  INDEX { diffServClfrId,
 diffServClfrElementId }
  ::= { diffServClfrElementTable 1 }

DiffServClfrElementEntry ::= SEQUENCE  {
  diffServClfrElementId         IndexInteger,
  diffServClfrElementPrecedence  Unsigned32,
  diffServClfrElementNext       RowPointer,
  diffServClfrElementSpecific    RowPointer,
  diffServClfrElementStorage     StorageType,
  diffServClfrElementStatus      RowStatus
```

```
}

diffServClfrElementId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Classifier Element entries.
    Managers obtain new values for row creation in this table by
    reading diffServClfrElementNextFree."
  ::= { diffServClfrElementEntry 1 }

diffServClfrElementPrecedence OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The relative order in which classifier elements are applied:
    higher numbers
 represent classifier element with higher
    precedence.  Classifier elements with the same order must be
    unambiguous i.e. they must define non-overlapping patterns, and
    are considered to be applied simultaneously to the traffic
    stream. Classifier elements with different order may overlap in
    their filters:  the classifier element with the highest order
    that matches is taken.

    On a given interface, there must be a complete classifier in
    place at all times in the ingress direction.  This means one or
    more filters must match any possible pattern. There is no such




    requirement in the egress direction."
  ::= { diffServClfrElementEntry 2 }

diffServClfrElementNext OBJECT-TYPE
  SYNTAX       RowPointer
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "This attribute provides one branch of the fan-out functionality
    of a classifier described in the Informal Differentiated Services

 Model section 4.1.

    This selects the next Differentiated Services Functional Data
    Path Element to handle traffic for this data path. This
```

RowPointer should point to an instance of one of:
diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServAlgDropEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates no further Differentiated Services treatment is performed on traffic of this data path. The use of zeroDotZero is the normal usage for the last functional data path element of the current data path.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or becomes inactive by other means, the treatment is as if this attribute contains a value of zeroDotZero."

::= { diffServClfrElementEntry 3 }

diffServClfrElementSpecific OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"A pointer to a valid entry in another table, filter table, that describes the applicable classification parameters, e.g. an entry in diffServMultiFieldClfrTable.

The value zeroDotZero is interpreted to match anything not matched by another classifier element - only one such entry may exist for each classifier.

Setting this to point to a target that does not exist results in an inconsistentValue error. If the row pointed to is removed or

becomes inactive by other means, the element is ignored."
::= { diffServClfrElementEntry 4 }

diffServClfrElementStorage OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The storage type for this conceptual row. Conceptual rows having the value 'permanent' need not allow write-access to any columnar objects in the row."

```
  DEFVAL
 { nonVolatile }
  ::= { diffServClfrElementEntry 5 }

diffServClfrElementStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServClfrElementEntry 6 }

--
-- IP Multi-field Classification Table
--
-- Classification based on six different fields in the IP header.
-- Functional Data Paths may share definitions by using the same entry.
--

diffServMultiFieldClfrNextFree OBJECT-TYPE
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for
    diffServMultiFieldClfrId, or a zero to indicate that none exist."
  ::= {
 diffServClassifier 5 }

diffServMultiFieldClfrTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF DiffServMultiFieldClfrEntry
  MAX-ACCESS  not-accessible
  STATUS  current
  DESCRIPTION
    "A table of IP Multi-field Classifier filter entries that a




    system may use to identify IP traffic."
  ::= { diffServClassifier 6 }

diffServMultiFieldClfrEntry OBJECT-TYPE
  SYNTAX      DiffServMultiFieldClfrEntry
  MAX-ACCESS  not-accessible
```

```
  STATUS   current
  DESCRIPTION
    "An IP Multi-field Classifier entry describes a single filter."
  INDEX { diffServMultiFieldClfrId }
  ::= { diffServMultiFieldClfrTable 1 }

DiffServMultiFieldClfrEntry ::= SEQUENCE {
  diffServMultiFieldClfrId          IndexInteger,
  diffServMultiFieldClfrAddrType    InetAddressType,
  diffServMultiFieldClfrDstAddr     InetAddress,
  diffServMultiFieldClfrDstPrefixLength InetAddressPrefixLength,
  diffServMultiFieldClfrSrcAddr     InetAddress,
  diffServMultiFieldClfrSrcPrefixLength
 InetAddressPrefixLength,
  diffServMultiFieldClfrDscp        DscpOrAny,
  diffServMultiFieldClfrFlowId      Unsigned32,
  diffServMultiFieldClfrProtocol    Unsigned32,
  diffServMultiFieldClfrDstL4PortMin InetPortNumber,
  diffServMultiFieldClfrDstL4PortMax InetPortNumber,
  diffServMultiFieldClfrSrcL4PortMin InetPortNumber,
  diffServMultiFieldClfrSrcL4PortMax InetPortNumber,
  diffServMultiFieldClfrStorage     StorageType,
  diffServMultiFieldClfrStatus      RowStatus
}

diffServMultiFieldClfrId OBJECT-TYPE
  SYNTAX        IndexInteger
  MAX-ACCESS    not-accessible
  STATUS    current
  DESCRIPTION
    "An index that enumerates the MultiField Classifier filter
    entries.  Managers obtain new values for row creation in this
    table by reading diffServMultiFieldClfrNextFree."

  ::= { diffServMultiFieldClfrEntry 1 }

diffServMultiFieldClfrAddrType OBJECT-TYPE
  SYNTAX        InetAddressType
  MAX-ACCESS    read-create

  STATUS        current
  DESCRIPTION
    "The type of IP address used by this classifier entry.  While
    other types of addresses are defined in the InetAddressType



    textual convention, and DNS names, a classifier can only look at
```

```
    packets on the wire. Therefore, this object is limited to IPv4
    and IPv6 addresses."
  ::= { diffServMultiFieldClfrEntry 2 }

diffServMultiFieldClfrDstAddr OBJECT-TYPE
  SYNTAX        InetAddress
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The IP address to match against the packet's destination IP
    address. This may not be a DNS name, but may be an IPv4 or IPv6
    prefix.  diffServMultiFieldClfrDstPrefixLength indicates the
    number of bits that are relevant."
  ::= { diffServMultiFieldClfrEntry 3 }

diffServMultiFieldClfrDstPrefixLength OBJECT-TYPE
  SYNTAX        InetAddressPrefixLength
  UNITS         "bits"
  MAX-ACCESS    read-create
  STATUS
 current
  DESCRIPTION
    "The length of the CIDR Prefix carried in
    diffServMultiFieldClfrDstAddr. In IPv4 addresses, a length of 0
    indicates a match of any address; a length of 32 indicates a
    match of a single host address, and a length between 0 and 32
    indicates the use of a CIDR Prefix. IPv6 is similar, except that
    prefix lengths range from 0..128."
  DEFVAL        { 0 }
  ::= { diffServMultiFieldClfrEntry 4 }

diffServMultiFieldClfrSrcAddr OBJECT-TYPE
  SYNTAX        InetAddress
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The IP address to match against the packet's source IP address.
    This may not be a DNS name, but may be an IPv4 or IPv6 prefix.
    diffServMultiFieldClfrSrcPrefixLength indicates the number of
    bits that are relevant."
  ::= { diffServMultiFieldClfrEntry 5 }

diffServMultiFieldClfrSrcPrefixLength OBJECT-TYPE
  SYNTAX        InetAddressPrefixLength
  UNITS
       "bits"
  MAX-ACCESS    read-create
  STATUS        current
```

```
    DESCRIPTION


        "The length of the CIDR Prefix carried in
        diffServMultiFieldClfrSrcAddr. In IPv4 addresses, a length of 0
        indicates a match of any address; a length of 32 indicates a
        match of a single host address, and a length between 0 and 32
        indicates the use of a CIDR Prefix. IPv6 is similar, except that
        prefix lengths range from 0..128."
    DEFVAL      { 0 }
    ::= { diffServMultiFieldClfrEntry 6 }

diffServMultiFieldClfrDscp OBJECT-TYPE
    SYNTAX      DscpOrAny
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The value that the DSCP in the packet must have to match this
        entry. A value of -1 indicates that a specific DSCP value has not
        been defined and thus all DSCP values are considered a match."
    DEFVAL      { -1 }
    ::= { diffServMultiFieldClfrEntry 7 }

diffServMultiFieldClfrFlowId OBJECT-TYPE

   SYNTAX      Unsigned32 (0..1048575)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The flow identifier in an IPv6 header."
    ::= { diffServMultiFieldClfrEntry 8 }

diffServMultiFieldClfrProtocol OBJECT-TYPE
    SYNTAX      Unsigned32 (0..255)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        "The IP protocol to match against the IPv4 protocol number or the
        IPv6 Next- Header number in the packet. A value of 255 means
        match all.  Note the protocol number of 255 is reserved by IANA,
        and Next-Header number of 0 is used in IPv6."
    DEFVAL      { 255 }
    ::= { diffServMultiFieldClfrEntry 9 }

diffServMultiFieldClfrDstL4PortMin OBJECT-TYPE
    SYNTAX      InetPortNumber
    MAX-ACCESS  read-create
```

```
  STATUS        current
  DESCRIPTION
    "The minimum value that the layer-4 destination port number in
    the packet must have in order to match this classifier entry."
  DEFVAL
      { 0 }



  ::= { diffServMultiFieldClfrEntry 10 }

diffServMultiFieldClfrDstL4PortMax OBJECT-TYPE
  SYNTAX        InetPortNumber
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The maximum value that the layer-4 destination port number in
    the packet must have in order to match this classifier entry.
    This value must be equal to or greater than the value specified
    for this entry in diffServMultiFieldClfrDstL4PortMin."
  DEFVAL        { 65535 }
  ::= { diffServMultiFieldClfrEntry 11 }

diffServMultiFieldClfrSrcL4PortMin OBJECT-TYPE
  SYNTAX        InetPortNumber
  MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The minimum value that the layer-4 source port number in the
    packet must have in order to match this classifier entry."
  DEFVAL        { 0 }
  ::= { diffServMultiFieldClfrEntry 12 }

diffServMultiFieldClfrSrcL4PortMax OBJECT-TYPE
  SYNTAX        InetPortNumber
   MAX-ACCESS    read-create
  STATUS        current
  DESCRIPTION
    "The maximum value that the layer-4 source port number in the
    packet must have in order to match this classifier entry. This
    value must be equal to or greater than the value specified for
    this entry in diffServMultiFieldClfrSrcL4PortMin."
  DEFVAL        { 65535 }
  ::= { diffServMultiFieldClfrEntry 13 }

diffServMultiFieldClfrStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create
```

```
    STATUS       current
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServMultiFieldClfrEntry 14 }

diffServMultiFieldClfrStatus OBJECT-TYPE



    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects
 in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServMultiFieldClfrEntry 15 }

--
-- Meters
--

diffServMeter         OBJECT IDENTIFIER ::= { diffServMIBObjects 3 }

--
-- This MIB supports a variety of Meters.  It includes a specific
-- definition for Token Bucket Meter, which are but one type of
-- specification. Other metering parameter sets can be defined in other
-- MIBs.

-- Multiple meter elements may be logically cascaded using their
-- diffServMeterSucceedNext and diffServMeterFailNext pointers if
-- required. One example of this might be for an AF PHB implementation
-- that uses multiple level conformance meters.

-- Cascading of individual meter elements in the MIB is intended to be
-- functionally equivalent to multiple level conformance determination
-- of a packet.
 The sequential nature of the representation is merely
-- a notational convenience for this MIB.

-- srTCM meters (RFC 2697) can be specified using two sets of
```

```
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket.  The second set specifies the Excess Burst Size
-- token-bucket.

-- trTCM meters (RFC 2698) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Information Rate and Committed Burst Size
-- token-bucket.  The second set specifies the Peak Information Rate
-- and Peak Burst Size token-bucket.

-- tswTCM meters (RFC 2859) can be specified using two sets of
-- diffServMeterEntry and diffServTBParamEntry. The first set specifies
-- the Committed Target Rate token-bucket.  The second set specifies




-- the Peak Target Rate token-bucket. diffServTBParamInterval in each
-- token bucket reflects the Average Interval.
--

diffServMeterNextFree
 OBJECT-TYPE
   SYNTAX       IndexIntegerNextFree
   MAX-ACCESS   read-only
   STATUS       current
   DESCRIPTION
     "This object contains an unused value for diffServMeterId, or a
     zero to indicate that none exist."
   ::= { diffServMeter 1 }

diffServMeterTable OBJECT-TYPE
   SYNTAX       SEQUENCE OF DiffServMeterEntry
   MAX-ACCESS   not-accessible
   STATUS       current
   DESCRIPTION
     "This table enumerates specific meters that a system may use to
     police a stream of traffic. The traffic stream to be metered is
     determined by the Differentiated Services Functional Data Path
     Element(s) upstream of the meter i.e. by the object(s) that point
     to each entry in this table.  This may include all traffic on an
     interface.

     Specific meter details are to be found in table entry referenced
     by diffServMeterSpecific."
   ::= { diffServMeter 2 }

diffServMeterEntry OBJECT-TYPE
```

```
  SYNTAX       DiffServMeterEntry
   MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry in the meter table describes a single conformance level
    of a meter."
  INDEX { diffServMeterId }
  ::= { diffServMeterTable 1 }

DiffServMeterEntry ::= SEQUENCE  {
  diffServMeterId              IndexInteger,
  diffServMeterSucceedNext      RowPointer,
  diffServMeterFailNext         RowPointer,
  diffServMeterSpecific         RowPointer,
  diffServMeterStorage          StorageType,
  diffServMeterStatus           RowStatus
}




diffServMeterId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Meter entries.  Managers obtain new
    values for row creation in this table by reading
    diffServMeterNextFree."
  ::= { diffServMeterEntry 1 }

diffServMeterSucceedNext OBJECT-TYPE
  SYNTAX       RowPointer
  MAX-ACCESS   read-create
  STATUS
   current
  DESCRIPTION
    "If the traffic does conform, this selects the next
    Differentiated Services Functional Data Path element to handle
    traffic for this data path. This RowPointer should point to an
    instance of one of:
      diffServClfrEntry
      diffServMeterEntry
      diffServActionEntry
      diffServAlgDropEntry
      diffServQEntry

    A value of zeroDotZero in this attribute indicates that no
```

```
      further Differentiated Services treatment is performed on traffic
      of this data path. The use of zeroDotZero is the normal usage for
      the last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServMeterEntry
   2 }

  diffServMeterFailNext OBJECT-TYPE
    SYNTAX       RowPointer
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "If the traffic does not conform, this selects the next
      Differentiated Services Functional Data Path element to handle
      traffic for this data path. This RowPointer should point to an
      instance of one of:
        diffServClfrEntry
        diffServMeterEntry



        diffServActionEntry
        diffServAlgDropEntry
        diffServQEntry

      A value of zeroDotZero in this attribute indicates no further
      Differentiated Services treatment is performed on traffic of this
      data path. The use of zeroDotZero is the normal usage for the
      last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
       attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServMeterEntry 3 }

  diffServMeterSpecific OBJECT-TYPE
    SYNTAX       RowPointer
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "This indicates the behavior of the meter by pointing to an entry
```

```
      containing detailed parameters. Note that entries in that
      specific table must be managed explicitly.

      For example, diffServMeterSpecific may point to an entry in
      diffServTBParamTable, which contains an instance of a single set
      of Token Bucket parameters.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the meter always succeeds."
    ::= { diffServMeterEntry 4 }

diffServMeterStorage OBJECT-TYPE
    SYNTAX       StorageType
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "The
 storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServMeterEntry 5 }

diffServMeterStatus OBJECT-TYPE
    SYNTAX       RowStatus
    MAX-ACCESS   read-create




    STATUS       current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServMeterEntry 6 }

--
-- Token Bucket Parameter Table
--

diffServTBParam        OBJECT IDENTIFIER ::= { diffServMIBObjects 4 }

-- Each entry in the Token Bucket Parameter Table parameterize a single
-- token bucket.  Multiple token buckets can be used together to
-- parameterize multiple levels of conformance.
```

```
-- Note that
 an entry in the Token Bucket Parameter Table can be shared
-- by multiple diffServMeterTable entries.
--

diffServTBParamNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServTBParamId, or a
    zero to indicate that none exist."
  ::= { diffServTBParam 1 }

diffServTBParamTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServTBParamEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table enumerates a single set of token bucket meter
    parameters that a system may use to police a stream of traffic.
    Such meters are modeled here as having a single rate and a single
    burst size. Multiple entries are used when multiple rates/burst
    sizes are needed."
  ::= { diffServTBParam 2 }

diffServTBParamEntry OBJECT-TYPE
  SYNTAX       DiffServTBParamEntry
  MAX-ACCESS   not-accessible
  STATUS
     current



  DESCRIPTION
    "An entry that describes a single set of token bucket
    parameters."
  INDEX { diffServTBParamId }
  ::= { diffServTBParamTable 1 }

DiffServTBParamEntry ::= SEQUENCE  {
  diffServTBParamId             IndexInteger,
  diffServTBParamType           AutonomousType,
  diffServTBParamRate           Unsigned32,
  diffServTBParamBurstSize      BurstSize,
  diffServTBParamInterval       Unsigned32,
  diffServTBParamStorage        StorageType,
```

```
  diffServTBParamStatus         RowStatus
}

diffServTBParamId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Token Bucket Parameter entries.
    Managers obtain new values for row creation in this table by
    reading diffServTBParamNextFree."
  ::= { diffServTBParamEntry 1 }

diffServTBParamType OBJECT-TYPE
  SYNTAX       AutonomousType
  MAX-ACCESS   read-create

  STATUS       current
  DESCRIPTION
    "The Metering algorithm associated with the Token Bucket
    parameters.  zeroDotZero indicates this is unknown.

    Standard values for generic algorithms:
    diffServTBParamSimpleTokenBucket, diffServTBParamAvgRate,
    diffServTBParamSrTCMBlind, diffServTBParamSrTCMAware,
    diffServTBParamTrTCMBlind, diffServTBParamTrTCMAware, and
    diffServTBParamTswTCM are specified in this MIB as OBJECT-
    IDENTITYs; additional values may be further specified in other
    MIBs."
  ::= { diffServTBParamEntry 2 }

diffServTBParamRate OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "kilobits per second"
  MAX-ACCESS   read-create
  STATUS       current



  DESCRIPTION
    "The token-bucket rate, in kilobits per second (kbps). This
    attribute is used for:
    1. CIR in RFC 2697 for srTCM
    2. CIR and PIR in RFC 2698 for trTCM
    3. CTR and PTR in RFC 2859 for TSWTCM

    4. AverageRate in RFC 3290."
  ::= { diffServTBParamEntry 3 }
```

```
diffServTBParamBurstSize OBJECT-TYPE
  SYNTAX      BurstSize
  UNITS       "Bytes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The maximum number of bytes in a single transmission burst. This
    attribute is used for:
    1. CBS and EBS in RFC 2697 for srTCM
    2. CBS and PBS in RFC 2698 for trTCM
    3. Burst Size in RFC 3290."
  ::= { diffServTBParamEntry 4 }

diffServTBParamInterval OBJECT-TYPE
  SYNTAX      Unsigned32 (1..4294967295)
  UNITS       "microseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The time interval used with the token bucket.  For:
    1. Average Rate Meter, the Informal Differentiated Services Model
      section 5.2.1, - Delta.
    2. Simple Token Bucket Meter, the Informal Differentiated
      Services Model section 5.1, - time interval t.
    3. RFC 2859 TSWTCM, - AVG_INTERVAL.
     4. RFC 2697 srTCM, RFC 2698 trTCM, - token bucket update time
      interval."
  ::= { diffServTBParamEntry 5 }

diffServTBParamStorage OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServTBParamEntry 6 }



diffServTBParamStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
```

```
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServTBParamEntry 7 }

--
-- OIDs for diffServTBParamType
 definitions.
--

diffServTBMeters  OBJECT IDENTIFIER ::= { diffServMIBAdmin 1 }

diffServTBParamSimpleTokenBucket OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "Two Parameter Token Bucket Meter as described in the Informal
      Differentiated Services Model section 5.2.3."
    ::= { diffServTBMeters 1 }

diffServTBParamAvgRate OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "Average Rate Meter as described in the Informal Differentiated
      Services Model section 5.2.1."
    ::= { diffServTBMeters 2 }

diffServTBParamSrTCMBlind OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "Single Rate Three Color Marker Metering as defined by RFC 2697,
      in the `Color Blind' mode as described by the RFC."
    REFERENCE
       "RFC 2697"
    ::= { diffServTBMeters 3 }

diffServTBParamSrTCMAware OBJECT-IDENTITY
    STATUS       current
    DESCRIPTION
      "Single Rate Three Color Marker Metering as defined by RFC 2697,
      in the
 `Color Aware' mode as described by the RFC."
    REFERENCE
       "RFC 2697"
```

```
  ::= { diffServTBMeters 4 }

diffServTBParamTrTCMBlind OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Two Rate Three Color Marker Metering as defined by RFC 2698, in
    the `Color Blind' mode as described by the RFC."
  REFERENCE
     "RFC 2698"
  ::= { diffServTBMeters 5 }

diffServTBParamTrTCMAware OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Two Rate Three Color Marker Metering as defined by RFC 2698, in
    the `Color Aware' mode as described by the RFC."
  REFERENCE
     "RFC 2698"
  ::= { diffServTBMeters 6 }

diffServTBParamTswTCM OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "Time Sliding Window Three Color Marker Metering as defined by
    RFC 2859."
  REFERENCE
     "RFC 2859"
  ::= { diffServTBMeters 7 }

--
-- Actions
--

diffServAction        OBJECT IDENTIFIER ::= { diffServMIBObjects 5 }

--
-- The Action
 Table allows enumeration of the different types of
-- actions to be applied to a traffic flow.
--

diffServActionNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServActionId, or a
    zero to indicate that none exist."
```

```
  ::= { diffServAction 1 }



diffServActionTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServActionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The Action Table enumerates actions that can be performed to a
    stream of traffic. Multiple actions can be concatenated. For
    example, traffic exiting from a meter may be counted, marked, and
    potentially dropped before entering a queue.

    Specific actions are indicated by diffServActionSpecific which
    points to an entry of a specific action type parameterizing the
    action in detail."
  ::= { diffServAction
 2 }

diffServActionEntry OBJECT-TYPE
  SYNTAX      DiffServActionEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Each entry in the action table allows description of one
    specific action to be applied to traffic."
  INDEX { diffServActionId }
  ::= { diffServActionTable 1 }

DiffServActionEntry ::= SEQUENCE  {
  diffServActionId              IndexInteger,
  diffServActionInterface       InterfaceIndexOrZero,
  diffServActionNext            RowPointer,
  diffServActionSpecific        RowPointer,
  diffServActionStorage         StorageType,
  diffServActionStatus          RowStatus
}

diffServActionId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that enumerates the Action entries.  Managers obtain
    new values for row creation in this table by reading
    diffServActionNextFree."
  ::= { diffServActionEntry 1 }
```

```
diffServActionInterface
  OBJECT-TYPE
    SYNTAX        InterfaceIndexOrZero
    MAX-ACCESS    read-create
    STATUS        current



    DESCRIPTION
      "The interface index (value of ifIndex) that this action occurs
      on. This may be derived from the diffServDataPathStartEntry's
      index by extension through the various RowPointers. However, as
      this may be difficult for a network management station, it is
      placed here as well.  If this is indeterminate, the value is
      zero.

      This is of especial relevance when reporting the counters which
      may apply to traffic crossing an interface:
        diffServCountActOctets,
        diffServCountActPkts,
        diffServAlgDropOctets,
        diffServAlgDropPkts,
        diffServAlgRandomDropOctets, and
        diffServAlgRandomDropPkts.

      It is also especially relevant to the queue and scheduler which
      may be subsequently applied."
    ::= { diffServActionEntry 2 }

diffServActionNext
 OBJECT-TYPE
   SYNTAX       RowPointer
   MAX-ACCESS   read-create
   STATUS       current
   DESCRIPTION
     "This selects the next Differentiated Services Functional Data
     Path Element to handle traffic for this data path. This
     RowPointer should point to an instance of one of:
       diffServClfrEntry
       diffServMeterEntry
       diffServActionEntry
       diffServAlgDropEntry
       diffServQEntry

     A value of zeroDotZero in this attribute indicates no further
     Differentiated Services treatment is performed on traffic of this
     data path. The use of zeroDotZero is the normal usage for the
```

```
      last functional data path element of the current data path.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL
      { zeroDotZero }
    ::= { diffServActionEntry 3 }

diffServActionSpecific OBJECT-TYPE



    SYNTAX      RowPointer
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "A pointer to an object instance providing additional information
      for the type of action indicated by this action table entry.

      For the standard actions defined by this MIB module, this should
      point to either a diffServDscpMarkActEntry or a
      diffServCountActEntry. For other actions, it may point to an
      object instance defined in some other MIB.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the Meter should be treated as
      if it were not present.  This may lead to incorrect policy
      behavior."
    ::= { diffServActionEntry 4 }

diffServActionStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
     STATUS      current
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServActionEntry 5 }

diffServActionStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
```

```
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServActionEntry 6 }

-- DSCP Mark Action Table
--
-- Rows of this table are pointed to by diffServActionSpecific to
-- provide detailed parameters specific to the DSCP Mark action.
--
-- A single entry in this table can be shared by multiple




-- diffServActionTable entries.
--

diffServDscpMarkActTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServDscpMarkActEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table enumerates specific DSCPs used for marking or
    remarking the DSCP field of IP packets. The entries of this table
    may be referenced by a diffServActionSpecific attribute."
  ::= { diffServAction 3 }

diffServDscpMarkActEntry OBJECT-TYPE
  SYNTAX      DiffServDscpMarkActEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the DSCP mark action table that describes a single
    DSCP used for marking."
  INDEX { diffServDscpMarkActDscp }
  ::= { diffServDscpMarkActTable 1 }

DiffServDscpMarkActEntry ::= SEQUENCE  {
  diffServDscpMarkActDscp         Dscp
}

diffServDscpMarkActDscp OBJECT-TYPE
  SYNTAX      Dscp
  MAX-ACCESS  read-only
```

```
    STATUS       current
    DESCRIPTION
        "The DSCP that this Action will store into
   the DSCP field of the
        subject. It is quite possible that the only packets subject to
        this Action are already marked with this DSCP. Note also that
        Differentiated Services processing may result in packet being
        marked on both ingress to a network and on egress from it, and
        that ingress and egress can occur in the same router."
    ::= { diffServDscpMarkActEntry 1 }

--
-- Count Action Table
--
-- Because the MIB structure allows multiple cascading
-- diffServActionEntry be used to describe multiple actions for a data
-- path, the counter became an optional action type.  In normal
-- implementation, either a data path has counters or it does not, as
-- opposed to being configurable. The management entity may choose to




-- read the counter or not.  Hence it is recommended for implementation
-- that have counters to always configure the count action as the first
-- of multiple actions.
--

diffServCountActNextFree OBJECT-TYPE
    SYNTAX       IndexIntegerNextFree
     MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        "This object contains an unused value for
        diffServCountActId, or a zero to indicate that none exist."
    ::= { diffServAction 4 }

diffServCountActTable OBJECT-TYPE
    SYNTAX       SEQUENCE OF DiffServCountActEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
        "This table contains counters for all the traffic passing through
        an action element."
    ::= { diffServAction 5 }

diffServCountActEntry OBJECT-TYPE
    SYNTAX       DiffServCountActEntry
    MAX-ACCESS   not-accessible
```

```
  STATUS       current
  DESCRIPTION
    "An entry in the count action table describes a single set of
    traffic counters."
  INDEX { diffServCountActId }
  ::= { diffServCountActTable 1 }

DiffServCountActEntry ::= SEQUENCE  {
  diffServCountActId          IndexInteger,
  diffServCountActOctets      Counter64,
  diffServCountActPkts        Counter64,

  diffServCountActStorage     StorageType,
  diffServCountActStatus      RowStatus
}

diffServCountActId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Count Action entries.  Managers
    obtain new values for row creation in this table by reading




    diffServCountActNextFree."
  ::= { diffServCountActEntry 1 }

diffServCountActOctets OBJECT-TYPE
  SYNTAX       Counter64
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "The number of octets at the Action data path element.

    Discontinuities in the value of this counter can occur at re-
    initialization of the management system and at other times as
    indicated by the value of ifCounterDiscontinuityTime on the
    relevant interface."
  ::= { diffServCountActEntry 2 }

diffServCountActPkts OBJECT-TYPE
  SYNTAX       Counter64
  MAX-ACCESS   read-only
  STATUS
 current
  DESCRIPTION
```

```
      "The number of packets at the Action data path element.

      Discontinuities in the value of this counter can occur at re-
      initialization of the management system and at other times as
      indicated by the value of ifCounterDiscontinuityTime on the
      relevant interface."
    ::= { diffServCountActEntry 3 }

diffServCountActStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServCountActEntry 4 }

diffServCountActStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
       'destroy' when the MIB contains one or more RowPointers pointing




      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServCountActEntry 5 }

--
-- Algorithmic Drop Table
--

diffServAlgDrop       OBJECT IDENTIFIER ::= { diffServMIBObjects 6 }

diffServAlgDropNextFree OBJECT-TYPE
    SYNTAX      IndexIntegerNextFree
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object contains an unused value for diffServAlgDropId, or a
      zero to indicate that none exist."
    ::= { diffServAlgDrop 1 }
```

```
diffServAlgDropTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServAlgDropEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The algorithmic drop table contains entries describing an
    element that drops packets according to some algorithm."
  ::= { diffServAlgDrop 2 }

diffServAlgDropEntry OBJECT-TYPE
  SYNTAX       DiffServAlgDropEntry
  MAX-ACCESS
  not-accessible
  STATUS       current
  DESCRIPTION
    "An entry describes a process that drops packets according to
    some algorithm. Further details of the algorithm type are to be
    found in diffServAlgDropType and with more detail parameter entry
    pointed to by diffServAlgDropSpecific when necessary."
  INDEX { diffServAlgDropId }
  ::= { diffServAlgDropTable 1 }

DiffServAlgDropEntry ::= SEQUENCE  {
  diffServAlgDropId              IndexInteger,
  diffServAlgDropType            INTEGER,
  diffServAlgDropNext            RowPointer,
  diffServAlgDropQMeasure        RowPointer,
  diffServAlgDropQThreshold      Unsigned32,
  diffServAlgDropSpecific        RowPointer,
  diffServAlgDropOctets          Counter64,



  diffServAlgDropPkts            Counter64,
  diffServAlgRandomDropOctets    Counter64,
  diffServAlgRandomDropPkts      Counter64,
  diffServAlgDropStorage         StorageType,
  diffServAlgDropStatus
 RowStatus
}

diffServAlgDropId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Algorithmic Dropper entries.
```

Managers obtain new values for row creation in this table by
reading diffServAlgDropNextFree."
::= { diffServAlgDropEntry 1 }

diffServAlgDropType OBJECT-TYPE
SYNTAX INTEGER {
other(1),
tailDrop(2),
headDrop(3),
randomDrop(4),
alwaysDrop(5)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The type of algorithm used by this dropper. The value other(1)
requires further specification in some other MIB module.

In the tailDrop(2) algorithm, diffServAlgDropQThreshold
represents the maximum depth of the queue, pointed to by
diffServAlgDropQMeasure, beyond which all newly arriving packets

will be dropped.

In the headDrop(3) algorithm, if a packet arrives when the
current depth of the queue, pointed to by
diffServAlgDropQMeasure, is at diffServAlgDropQThreshold, packets
currently at the head of the queue are dropped to make room for
the new packet to be enqueued at the tail of the queue.

In the randomDrop(4) algorithm, on packet arrival, an Active
Queue Management algorithm is executed which may randomly drop a
packet. This algorithm may be proprietary, and it may drop either
the arriving packet or another packet in the queue.
diffServAlgDropSpecific points to a diffServRandomDropEntry that
describes the algorithm. For this algorithm,

diffServAlgDropQThreshold is understood to be the absolute
maximum size of the queue and additional parameters are described
in diffServRandomDropTable.

The alwaysDrop(5) algorithm is as its name specifies; always
drop. In
this case, the other configuration values in this Entry
are not meaningful; There is no useful 'next' processing step,
there is no queue, and parameters describing the queue are not

useful. Therefore, diffServAlgDropNext, diffServAlgDropMeasure,
and diffServAlgDropSpecific are all zeroDotZero."
::= { diffServAlgDropEntry 2 }

diffServAlgDropNext OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This selects the next Differentiated Services Functional Data
Path Element to handle traffic for this data path. This
RowPointer should point to an instance of one of:
diffServClfrEntry
diffServMeterEntry
diffServActionEntry
diffServQEntry

A value of zeroDotZero in this attribute indicates no further
Differentiated Services treatment is performed on traffic of this
data path. The use of zeroDotZero is the normal usage for the
last functional data path element of the current data path.

When diffServAlgDropType is alwaysDrop(5), this object is
ignored.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServAlgDropEntry 3 }

diffServAlgDropQMeasure OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"Points to an entry in the diffServQTable to indicate the queue
that a drop algorithm is to monitor when deciding whether to drop
a packet. If the row pointed to does not exist, the algorithmic
dropper element is considered inactive.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes
inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."

```
  ::= { diffServAlgDropEntry 4 }

diffServAlgDropQThreshold OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  UNITS       "Bytes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "A threshold on the depth in bytes of the queue being measured at
    which a trigger is generated to the dropping algorithm, unless
    diffServAlgDropType is alwaysDrop(5) where this object is
    ignored.

    For the tailDrop(2) or headDrop(3) algorithms, this represents
    the depth of the queue, pointed to by diffServAlgDropQMeasure, at
    which the drop action will take place. Other algorithms will need
    to define their own semantics for this threshold."
  ::= { diffServAlgDropEntry 5 }

diffServAlgDropSpecific OBJECT-TYPE
  SYNTAX      RowPointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION

  "Points to a table entry that provides further detail regarding a
    drop algorithm.

    Entries with diffServAlgDropType equal to other(1) may have this
    point to a table defined in another MIB module.

    Entries with diffServAlgDropType equal to randomDrop(4) must have
    this point to an entry in diffServRandomDropTable.

    For all other algorithms specified in this MIB, this should take
    the value zeroDotZero.

    The diffServAlgDropType is authoritative for the type of the drop
    algorithm and the specific parameters for the drop algorithm
    needs to be evaluated based on the diffServAlgDropType.

    Setting this to point to a target that does not exist results in
    an inconsistentValue error.  If the row pointed to is removed or
    becomes inactive by other means, the treatment is as if this
    attribute contains a value of zeroDotZero."
```

::= { diffServAlgDropEntry 6 }

diffServAlgDropOctets OBJECT-TYPE
SYNTAX
Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."
::= { diffServAlgDropEntry 7 }

diffServAlgDropPkts OBJECT-TYPE
SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of packets that have been deterministically dropped by this drop process.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."
::= { diffServAlgDropEntry 8 }

diffServAlgRandomDropOctets OBJECT-TYPE

SYNTAX Counter64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets that have been randomly dropped by this drop process. This counter applies, therefore, only to random droppers.

Discontinuities in the value of this counter can occur at re-initialization of the management system and at other times as indicated by the value of ifCounterDiscontinuityTime on the relevant interface."
::= { diffServAlgDropEntry 9 }

diffServAlgRandomDropPkts OBJECT-TYPE

```
  SYNTAX      Counter64
  MAX-ACCESS  read-only



  STATUS      current
  DESCRIPTION
    "The number of packets that have been randomly dropped by this
    drop process. This counter applies, therefore, only to random
    droppers.

    Discontinuities in the value of this counter can occur at re-
    initialization of the management system and at other times as
    indicated by the value of ifCounterDiscontinuityTime
 on the
    relevant interface."
  ::= { diffServAlgDropEntry 10 }

diffServAlgDropStorage OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServAlgDropEntry 11 }

diffServAlgDropStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServAlgDropEntry 12 }

--
-- Random Drop Table
--

diffServRandomDropNextFree OBJECT-TYPE
  SYNTAX
```

```
    IndexIntegerNextFree
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServRandomDropId,
    or a zero to indicate that none exist."
  ::= { diffServAlgDrop 3 }



diffServRandomDropTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF DiffServRandomDropEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The random drop table contains entries describing a process that
    drops packets randomly. Entries in this table are pointed to by
    diffServAlgDropSpecific."
  ::= { diffServAlgDrop 4 }

diffServRandomDropEntry OBJECT-TYPE
  SYNTAX       DiffServRandomDropEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "An entry describes a process that drops packets according to a
    random algorithm."
  INDEX { diffServRandomDropId }
  ::= { diffServRandomDropTable 1 }

DiffServRandomDropEntry ::= SEQUENCE  {
  diffServRandomDropId
            IndexInteger,
  diffServRandomDropMinThreshBytes   Unsigned32,
  diffServRandomDropMinThreshPkts    Unsigned32,
  diffServRandomDropMaxThreshBytes   Unsigned32,
  diffServRandomDropMaxThreshPkts    Unsigned32,
  diffServRandomDropProbMax          Unsigned32,
  diffServRandomDropWeight           Unsigned32,
  diffServRandomDropSamplingRate     Unsigned32,
  diffServRandomDropStorage          StorageType,
  diffServRandomDropStatus           RowStatus
}

diffServRandomDropId OBJECT-TYPE
  SYNTAX       IndexInteger
  MAX-ACCESS   not-accessible
```

```
  STATUS       current
  DESCRIPTION
    "An index that enumerates the Random Drop entries.  Managers
    obtain new values for row creation in this table by reading
    diffServRandomDropNextFree."
  ::= { diffServRandomDropEntry 1 }

diffServRandomDropMinThreshBytes OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "bytes"
  MAX-ACCESS   read-create
  STATUS       current



   DESCRIPTION
    "The average queue depth in bytes, beyond which traffic has a
    non-zero probability of being dropped. Changes in this variable
    may or may not be reflected in the reported value of
    diffServRandomDropMinThreshPkts."
  ::= { diffServRandomDropEntry 2 }

diffServRandomDropMinThreshPkts OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "packets"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The average queue depth in packets, beyond which traffic has a
    non-zero probability of being dropped. Changes in this variable
    may or may not be reflected in the reported value of
    diffServRandomDropMinThreshBytes."
  ::= { diffServRandomDropEntry 3 }

diffServRandomDropMaxThreshBytes OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  UNITS        "bytes"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The average queue depth beyond which
 traffic has a probability
    indicated by diffServRandomDropProbMax of being dropped or
    marked. Note that this differs from the physical queue limit,
    which is stored in diffServAlgDropQThreshold. Changes in this
    variable may or may not be reflected in the reported value of
    diffServRandomDropMaxThreshPkts."
  ::= { diffServRandomDropEntry 4 }
```

```
diffServRandomDropMaxThreshPkts OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
  UNITS       "packets"
  MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The average queue depth beyond which traffic has a probability
    indicated by diffServRandomDropProbMax of being dropped or
    marked. Note that this differs from the physical queue limit,
    which is stored in diffServAlgDropQThreshold. Changes in this
    variable may or may not be reflected in the reported value of
    diffServRandomDropMaxThreshBytes."
  ::= { diffServRandomDropEntry 5 }

diffServRandomDropProbMax
 OBJECT-TYPE



  SYNTAX      Unsigned32 (0..1000)
  MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The worst case random drop probability, expressed in drops per
    thousand packets.

    For example, if in the worst case every arriving packet may be
    dropped (100%) for a period, this has the value 1000.
    Alternatively, if in the worst case only one percent (1%) of
    traffic may be dropped, it has the value 10."
 ::= { diffServRandomDropEntry 6 }

diffServRandomDropWeight OBJECT-TYPE
  SYNTAX      Unsigned32 (0..65536)
  MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The weighting of past history in affecting the Exponentially
    Weighted Moving Average function that calculates the current
    average queue depth.  The equation uses
    diffServRandomDropWeight/65536 as the coefficient for the new
    sample in the equation, and (65536 -
    diffServRandomDropWeight)/65536
 as the coefficient of the old
    value.

    Implementations may limit the values of diffServRandomDropWeight
```

```
      to a subset of the possible range of values, such as powers of
      two. Doing this would facilitate implementation of the
      Exponentially Weighted Moving Average using shift instructions or
      registers."
    ::= { diffServRandomDropEntry 7 }

diffServRandomDropSamplingRate OBJECT-TYPE
    SYNTAX      Unsigned32 (0..1000000)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The number of times per second the queue is sampled for queue
      average calculation.  A value of zero is used to mean that the
      queue is sampled approximately each time a packet is enqueued (or
      dequeued)."
    ::= { diffServRandomDropEntry 8 }

diffServRandomDropStorage OBJECT-TYPE
    SYNTAX      StorageType
    MAX-ACCESS  read-create
    STATUS      current



    DESCRIPTION
      "The storage type for this conceptual
   row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServRandomDropEntry 9 }

diffServRandomDropStatus OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServRandomDropEntry 10 }

--
-- Queue Table
--
```

```
diffServQueue         OBJECT IDENTIFIER ::= { diffServMIBObjects 7 }

--
-- An entry of diffServQTable represents a FIFO queue Differentiated
-- Services Functional Data Path element as described in the Informal
-- Differentiated Services Model section 7.1.1. Note that the
-- specification of scheduling
 parameters for a queue as part of the
-- input to a scheduler functional data path element as described in
-- the Informal Differentiated Services Model section 7.1.2. This
-- allows building of hierarchical queuing/scheduling. A queue
-- therefore has these attributes:
--
-- 1. Which scheduler will service this queue, diffServQNext.
-- 2. How the scheduler will service this queue, with respect
--    to all the other queues the same scheduler needs to service,
--    diffServQMinRate.
--
-- Note that upstream Differentiated Services Functional Data Path
-- elements may point to a shared diffServQTable entry as described
-- in the Informal Differentiated Services Model section 7.1.1.
--

diffServQNextFree OBJECT-TYPE
  SYNTAX       IndexIntegerNextFree
  MAX-ACCESS   read-only




  STATUS       current
  DESCRIPTION
    "This object contains an unused value for diffServQId, or a zero
    to indicate that none exist."
  ::= { diffServQueue 1 }

diffServQTable OBJECT-TYPE
   SYNTAX       SEQUENCE OF DiffServQEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "The Queue Table enumerates the individual queues.  Note that the
    MIB models queuing systems as composed of individual queues, one
    per class of traffic, even though they may in fact be structured
    as classes of traffic scheduled using a common calendar queue, or
    in other ways."
  ::= { diffServQueue 2 }

diffServQEntry OBJECT-TYPE
```

```
  SYNTAX      DiffServQEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the Queue Table describes a single queue or class of
    traffic."
  INDEX { diffServQId }
  ::= { diffServQTable 1 }

DiffServQEntry ::= SEQUENCE  {
  diffServQId                IndexInteger,
  diffServQNext              RowPointer,
  diffServQMinRate           RowPointer,
  diffServQMaxRate           RowPointer,
  diffServQStorage
  StorageType,
  diffServQStatus            RowStatus
}

diffServQId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An index that enumerates the Queue entries.  Managers obtain new
    values for row creation in this table by reading
    diffServQNextFree."
  ::= { diffServQEntry 1 }

diffServQNext OBJECT-TYPE



  SYNTAX      RowPointer
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "This selects the next Differentiated Services Scheduler.  The
    RowPointer must point to a diffServSchedulerEntry.

    A value of zeroDotZero in this attribute indicates an incomplete
    diffServQEntry instance. In such a case, the entry has no
    operational effect, since it has no parameters to give it
    meaning.

    Setting this to point to a target that does not exist results in
    an inconsistentValue error.  If the row pointed to is removed or
```

becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServQEntry 2 }

diffServQMinRate OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This RowPointer indicates the diffServMinRateEntry that the
scheduler, pointed to by diffServQNext, should use to service
this queue.

If the row pointed to is zeroDotZero, the minimum rate and
priority is unspecified.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServQEntry 3 }

diffServQMaxRate OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This RowPointer indicates the diffServMaxRateEntry
that the
scheduler, pointed to by diffServQNext, should use to service
this queue.

If the row pointed to is zeroDotZero, the maximum rate is the
line speed of the interface.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
::= { diffServQEntry 4 }

diffServQStorage OBJECT-TYPE
SYNTAX StorageType
MAX-ACCESS read-create
STATUS current

```
    DESCRIPTION
      "The storage type for this conceptual row.  Conceptual rows
      having the value 'permanent' need not allow write-access to any
      columnar objects in the row."
    DEFVAL { nonVolatile }
    ::= { diffServQEntry 5 }

diffServQStatus OBJECT-TYPE
    SYNTAX       RowStatus
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION

  "The status of this conceptual row. All writable objects in this
      row may be modified at any time. Setting this variable to
      'destroy' when the MIB contains one or more RowPointers pointing
      to it results in destruction being delayed until the row is no
      longer used."
    ::= { diffServQEntry 6 }

--
-- Scheduler Table
--

diffServScheduler      OBJECT IDENTIFIER ::= { diffServMIBObjects 8 }

--
-- A Scheduler Entry represents a packet scheduler, such as a priority
-- scheduler or a WFQ scheduler. It provides flexibility for multiple
-- scheduling algorithms, each servicing multiple queues, to be used on
-- the same logical/physical interface.
--
-- Note that upstream queues or schedulers specify several of the
-- scheduler's parameters. These must be properly specified if the
-- scheduler is to behave as expected.
--
-- The diffServSchedulerMaxRate attribute specifies the parameters when
-- a scheduler's output is sent to another scheduler. This is used in
-- building
 hierarchical queues or schedulers.



--
-- More discussion of the scheduler functional data path element is in
-- the Informal Differentiated Services Model section 7.1.2.
--
```

```
diffServSchedulerNextFree OBJECT-TYPE
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServSchedulerId, or
    a zero to indicate that none exist."
  ::= { diffServScheduler 1 }

diffServSchedulerTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServSchedulerEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The Scheduler Table enumerates packet schedulers. Multiple
    scheduling algorithms can be used on a given data path, with each
    algorithm described by one diffServSchedulerEntry."
  ::= { diffServScheduler 2 }

diffServSchedulerEntry OBJECT-TYPE
  SYNTAX      DiffServSchedulerEntry
  MAX-ACCESS  not-accessible
  STATUS      current
   DESCRIPTION
    "An entry in the Scheduler Table describing a single instance of
    a scheduling algorithm."
  INDEX { diffServSchedulerId }
  ::= { diffServSchedulerTable 1 }

DiffServSchedulerEntry ::= SEQUENCE  {
  diffServSchedulerId              IndexInteger,
  diffServSchedulerNext            RowPointer,
  diffServSchedulerMethod          AutonomousType,
  diffServSchedulerMinRate         RowPointer,
  diffServSchedulerMaxRate         RowPointer,
  diffServSchedulerStorage         StorageType,
  diffServSchedulerStatus          RowStatus
}

diffServSchedulerId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current



  DESCRIPTION
    "An index that enumerates the Scheduler entries.  Managers obtain
```

new values for row creation in this table by reading
diffServSchedulerNextFree."
::= { diffServSchedulerEntry 1 }

diffServSchedulerNext OBJECT-TYPE

SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This selects the next Differentiated Services Functional Data
Path Element to handle traffic for this data path. This normally
is null (zeroDotZero), or points to a diffServSchedulerEntry or a
diffServQEntry.

However, this RowPointer may also point to an instance of:
diffServClfrEntry,
diffServMeterEntry,
diffServActionEntry,
diffServAlgDropEntry.

It would point another diffServSchedulerEntry when implementing
multiple scheduler methods for the same data path, such as having
one set of queues scheduled by WRR and that group participating
in a priority scheduling system in which other queues compete
with it in that way. It might also point to a second scheduler
in a hierarchical scheduling system.

If the row pointed to is zeroDotZero, no further Differentiated
Services
treatment is performed on traffic of this data path.

Setting this to point to a target that does not exist results in
an inconsistentValue error. If the row pointed to is removed or
becomes inactive by other means, the treatment is as if this
attribute contains a value of zeroDotZero."
DEFVAL { zeroDotZero }
::= { diffServSchedulerEntry 2 }

diffServSchedulerMethod OBJECT-TYPE
SYNTAX AutonomousType
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The scheduling algorithm used by this Scheduler. zeroDotZero
indicates that this is unknown. Standard values for generic
algorithms: diffServSchedulerPriority, diffServSchedulerWRR, and
diffServSchedulerWFQ are specified in this MIB; additional values

```
      may be further specified in other MIBs."
    ::= { diffServSchedulerEntry 3 }

diffServSchedulerMinRate OBJECT-TYPE
    SYNTAX      RowPointer
    MAX-ACCESS  read-create

    STATUS      current
    DESCRIPTION
      "This RowPointer indicates the entry in diffServMinRateTable
      which indicates the priority or minimum output rate from this
      scheduler. This attribute is used only when there is more than
      one level of scheduler.

      When it has the value zeroDotZero, it indicates that no minimum
      rate or priority is imposed.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
    ::= { diffServSchedulerEntry 4 }

diffServSchedulerMaxRate OBJECT-TYPE
    SYNTAX      RowPointer
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      "This RowPointer indicates the entry in diffServMaxRateTable
      which indicates the maximum output rate from this scheduler.
      When
   more than one maximum rate applies (eg, when a multi-rate
      shaper is in view), it points to the first of those rate entries.
      This attribute is used only when there is more than one level of
      scheduler.

      When it has the value zeroDotZero, it indicates that no maximum
      rate is imposed.

      Setting this to point to a target that does not exist results in
      an inconsistentValue error.  If the row pointed to is removed or
      becomes inactive by other means, the treatment is as if this
      attribute contains a value of zeroDotZero."
    DEFVAL      { zeroDotZero }
```

```
  ::= { diffServSchedulerEntry 5 }

diffServSchedulerStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create



  STATUS       current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::=
 { diffServSchedulerEntry 6 }

diffServSchedulerStatus OBJECT-TYPE
  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServSchedulerEntry 7 }

--
-- OIDs for diffServTBParamType definitions.
--

diffServSchedulers  OBJECT IDENTIFIER ::= { diffServMIBAdmin 2 }

diffServSchedulerPriority OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "For use with diffServSchedulerMethod to indicate the Priority
    scheduling method.  This is defined as an algorithm in which the
    presence of data in a queue or set of queues absolutely precludes
    dequeue from another queue or set of queues of lower priority.
    Note
 that attributes from diffServMinRateEntry of the
    queues/schedulers feeding this scheduler are used when
    determining the next packet to schedule."
  ::= { diffServSchedulers 1 }
```

```
diffServSchedulerWRR OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "For use with diffServSchedulerMethod to indicate the Weighted
    Round Robin scheduling method, defined as any algorithm in which
    a set of queues are visited in a fixed order, and varying amounts
    of traffic are removed from each queue in turn to implement an
    average output rate by class. Notice attributes from
    diffServMinRateEntry of the queues/schedulers feeding this
    scheduler are used when determining the next packet to schedule."



  ::= { diffServSchedulers 2 }

diffServSchedulerWFQ OBJECT-IDENTITY
  STATUS       current
  DESCRIPTION
    "For use with diffServSchedulerMethod to indicate the Weighted
    Fair Queuing scheduling method, defined as any algorithm
 in which
    a set of queues are conceptually visited in some order, to
    implement an average output rate by class. Notice attributes from
    diffServMinRateEntry of the queues/schedulers feeding this
    scheduler are used when determining the next packet to schedule."
  ::= { diffServSchedulers 3 }

--
-- Minimum Rate Parameters Table
--
-- The parameters used by a scheduler for its inputs or outputs are
-- maintained separately from the Queue or Scheduler table entries for
-- reusability reasons and so that they may be used by both queues and
-- schedulers.  This follows the approach for separation of data path
-- elements from parameterization that is used throughout this MIB.
-- Use of these Minimum Rate Parameter Table entries by Queues and
-- Schedulers allows the modeling of hierarchical scheduling systems.
--
-- Specifically, a Scheduler has one or more inputs and one output.
-- Any queue feeding a scheduler, or any scheduler which feeds a second
-- scheduler,
 might specify a minimum transfer rate by pointing to an
-- Minimum Rate Parameter Table entry.
--
-- The diffServMinRatePriority/Abs/Rel attributes are used as
-- parameters to the work-conserving portion of a scheduler:
-- "work-conserving" implies that the scheduler can continue to emit
-- data as long as there is data available at its input(s).  This has
```

```
-- the effect of guaranteeing a certain priority relative to other
-- scheduler inputs and/or a certain minimum proportion of the
-- available output bandwidth. Properly configured, this means a
-- certain minimum rate, which may be exceeded should traffic be
-- available should there be spare bandwidth after all other classes
-- have had opportunities to consume their own minimum rates.
--

diffServMinRateNextFree OBJECT-TYPE
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServMinRateId, or a
    zero to indicate
 that none exist."



  ::= { diffServScheduler 3 }

diffServMinRateTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServMinRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The Minimum Rate Parameters Table enumerates individual sets of
    scheduling parameter that can be used/reused by Queues and
    Schedulers."
  ::= { diffServScheduler 4 }

diffServMinRateEntry OBJECT-TYPE
  SYNTAX      DiffServMinRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the Minimum Rate Parameters Table describes a single
    set of scheduling parameters for use by one or more queues or
    schedulers."
  INDEX { diffServMinRateId }
  ::= { diffServMinRateTable 1 }

DiffServMinRateEntry ::= SEQUENCE  {
  diffServMinRateId            IndexInteger,
  diffServMinRatePriority      Unsigned32,
  diffServMinRateAbsolute      Unsigned32,
  diffServMinRateRelative      Unsigned32,
```

```
    diffServMinRateStorage         StorageType,
    diffServMinRateStatus          RowStatus
}

diffServMinRateId OBJECT-TYPE
    SYNTAX       IndexInteger
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
      "An index that enumerates the Scheduler Parameter entries.
      Managers obtain new values for row creation in this table by
      reading diffServMinRateNextFree."
    ::= { diffServMinRateEntry 1 }

diffServMinRatePriority OBJECT-TYPE
    SYNTAX       Unsigned32  (1..4294967295)
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
      "The priority of this input to the associated scheduler, relative




      to the scheduler's other inputs. A queue or scheduler with a
      larger numeric value will be served before another with a smaller
      numeric value."
    ::= { diffServMinRateEntry 2 }

diffServMinRateAbsolute OBJECT-TYPE
    SYNTAX       Unsigned32  (1..4294967295)
    UNITS        "kilobits per second"
    MAX-ACCESS
    read-create
    STATUS       current
    DESCRIPTION
      "The minimum absolute rate, in kilobits/sec, that a downstream
      scheduler element should allocate to this queue. If the value is
      zero, then there is effectively no minimum rate guarantee. If the
      value is non-zero, the scheduler will assure the servicing of
      this queue to at least this rate.

      Note that this attribute value and that of
      diffServMinRateRelative are coupled: changes to one will affect
      the value of the other. They are linked by the following
      equation, in that setting one will change the other:

        diffServMinRateRelative =
              (diffServMinRateAbsolute*1000000)/ifSpeed
```

```
    or, if appropriate:

      diffServMinRateRelative = diffServMinRateAbsolute/ifHighSpeed"
  REFERENCE
    "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
  ::= { diffServMinRateEntry 3 }

diffServMinRateRelative OBJECT-TYPE
  SYNTAX      Unsigned32  (1..4294967295)
   MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The minimum rate that a downstream scheduler element should
    allocate to this queue, relative to the maximum rate of the
    interface as reported by ifSpeed or ifHighSpeed, in units of
    1/1000 of 1. If the value is zero, then there is effectively no
    minimum rate guarantee. If the value is non-zero, the scheduler
    will assure the servicing of this queue to at least this rate.

    Note that this attribute value and that of
    diffServMinRateAbsolute are coupled: changes to one will affect
    the value of the other. They are linked by the following
    equation, in that setting one will change the other:



      diffServMinRateRelative =
            (diffServMinRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMinRateRelative = diffServMinRateAbsolute/ifHighSpeed"
  REFERENCE
    "ifSpeed, ifHighSpeed, Interface MIB,
 RFC 2863"
  ::= { diffServMinRateEntry 4 }

diffServMinRateStorage OBJECT-TYPE
  SYNTAX      StorageType
  MAX-ACCESS   read-create
  STATUS      current
  DESCRIPTION
    "The storage type for this conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServMinRateEntry 5 }
```

```
diffServMinRateStatus OBJECT-TYPE
  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServMinRateEntry 6 }

--
-- Maximum Rate Parameter Table
--
-- The parameters used by a scheduler for its inputs or outputs are
-- maintained
 separately from the Queue or Scheduler table entries for
-- reusability reasons and so that they may be used by both queues and
-- schedulers.  This follows the approach for separation of data path
-- elements from parameterization that is used throughout this MIB.
-- Use of these Maximum Rate Parameter Table entries by Queues and
-- Schedulers allows the modeling of hierarchical scheduling systems.
--
-- Specifically, a Scheduler has one or more inputs and one output.
-- Any queue feeding a scheduler, or any scheduler which feeds a second
-- scheduler, might specify a maximum transfer rate by pointing to a
-- Maximum Rate Parameter Table entry. Multi-rate shapers, such as a




-- Dual Leaky Bucket algorithm, specify their rates using multiple
-- Maximum Rate Parameter Entries with the same diffServMaxRateId but
-- different diffServMaxRateLevels.
--
-- The diffServMaxRateLevel/Abs/Rel attributes are used as
-- parameters to the non-work-conserving portion of a scheduler:
-- non-work-conserving
 implies that the scheduler may sometimes not
-- emit a packet, even if there is data available at its input(s).
-- This has the effect of limiting the servicing of the queue/scheduler
-- input or output, in effect performing shaping of the packet stream
-- passing through the queue/scheduler, as described in the Informal
-- Differentiated Services Model section 7.2.
--

diffServMaxRateNextFree OBJECT-TYPE
```

```
  SYNTAX      IndexIntegerNextFree
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains an unused value for diffServMaxRateId, or a
    zero to indicate that none exist."
  ::= { diffServScheduler 5 }

diffServMaxRateTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF DiffServMaxRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "The Maximum Rate Parameter Table enumerates individual sets of
    scheduling parameter that can be used/reused by Queues and
    Schedulers."
  ::=
 { diffServScheduler 6 }

diffServMaxRateEntry OBJECT-TYPE
  SYNTAX      DiffServMaxRateEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the Maximum Rate Parameter Table describes a single
    set of scheduling parameters for use by one or more queues or
    schedulers."
  INDEX { diffServMaxRateId, diffServMaxRateLevel }
  ::= { diffServMaxRateTable 1 }

DiffServMaxRateEntry ::= SEQUENCE  {
  diffServMaxRateId            IndexInteger,
  diffServMaxRateLevel         Unsigned32,
  diffServMaxRateAbsolute      Unsigned32,



  diffServMaxRateRelative      Unsigned32,
  diffServMaxRateThreshold     BurstSize,
  diffServMaxRateStorage       StorageType,
  diffServMaxRateStatus        RowStatus
}

diffServMaxRateId OBJECT-TYPE
  SYNTAX      IndexInteger
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
```

"An index that enumerates the Maximum Rate Parameter entries.

Managers obtain new values for row creation in this table by
reading diffServMaxRateNextFree."
::= { diffServMaxRateEntry 1 }

diffServMaxRateLevel OBJECT-TYPE
SYNTAX Unsigned32 (1..32)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An index that indicates which level of a multi-rate shaper is
being given its parameters. A multi-rate shaper has some number
of rate levels. Frame Relay's dual rate specification refers to a
'committed' and an 'excess' rate; ATM's dual rate specification
refers to a 'mean' and a 'peak' rate. This table is generalized
to support an arbitrary number of rates. The committed or mean
rate is level 1, the peak rate (if any) is the highest level rate
configured, and if there are other rates they are distributed in
monotonically increasing order between them."
::= { diffServMaxRateEntry 2 }

diffServMaxRateAbsolute OBJECT-TYPE
SYNTAX Unsigned32
(1..4294967295)
UNITS "kilobits per second"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The maximum rate in kilobits/sec that a downstream scheduler
element should allocate to this queue. If the value is zero, then
there is effectively no maximum rate limit and that the scheduler
should attempt to be work conserving for this queue. If the value
is non-zero, the scheduler will limit the servicing of this queue
to, at most, this rate in a non-work-conserving manner.

Note that this attribute value and that of
diffServMaxRateRelative are coupled: changes to one will affect
the value of the other. They are linked by the following

equation, in that setting one will change the other:

diffServMaxRateRelative =
(diffServMaxRateAbsolute*1000000)/ifSpeed

or, if appropriate:

```
      diffServMaxRateRelative = diffServMaxRateAbsolute/ifHighSpeed"
    REFERENCE
      "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
  ::= { diffServMaxRateEntry 3 }

diffServMaxRateRelative OBJECT-TYPE
  SYNTAX       Unsigned32  (1..4294967295)
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The maximum rate that a downstream scheduler element should
    allocate to this queue, relative to the maximum rate of the
    interface as reported by ifSpeed or ifHighSpeed, in units of
    1/1000 of 1. If the value is zero, then there is effectively no
    maximum rate limit and the scheduler should attempt to be work
    conserving for this queue. If the value is non-zero, the
    scheduler will limit the servicing of this queue to, at most,
    this rate in a non-work-conserving manner.

    Note that this attribute value and that of
    diffServMaxRateAbsolute are coupled: changes to one will affect
    the value of the other. They are linked by the following
    equation, in that setting
 one will change the other:

      diffServMaxRateRelative =
           (diffServMaxRateAbsolute*1000000)/ifSpeed

    or, if appropriate:

      diffServMaxRateRelative = diffServMaxRateAbsolute/ifHighSpeed"
  REFERENCE
    "ifSpeed, ifHighSpeed, Interface MIB, RFC 2863"
  ::= { diffServMaxRateEntry 4 }

diffServMaxRateThreshold OBJECT-TYPE
  SYNTAX       BurstSize
  UNITS        "Bytes"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The number of bytes of queue depth at which the rate of a




    multi-rate scheduler will increase to the next output rate. In
    the last conceptual row for such a shaper, this threshold is
```

```
    ignored and by convention is zero."
  REFERENCE
     "Adaptive rate Shaper, RFC 2963"
  ::= { diffServMaxRateEntry 5 }

diffServMaxRateStorage OBJECT-TYPE
  SYNTAX       StorageType
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The storage type for this
 conceptual row.  Conceptual rows
    having the value 'permanent' need not allow write-access to any
    columnar objects in the row."
  DEFVAL { nonVolatile }
  ::= { diffServMaxRateEntry 6 }

diffServMaxRateStatus OBJECT-TYPE
  SYNTAX       RowStatus
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
    "The status of this conceptual row. All writable objects in this
    row may be modified at any time. Setting this variable to
    'destroy' when the MIB contains one or more RowPointers pointing
    to it results in destruction being delayed until the row is no
    longer used."
  ::= { diffServMaxRateEntry 7 }

--
-- MIB Compliance statements.
--

diffServMIBCompliances OBJECT IDENTIFIER ::=
                          { diffServMIBConformance 1 }
diffServMIBGroups     OBJECT IDENTIFIER ::=
                          { diffServMIBConformance 2 }

diffServMIBFullCompliance MODULE-COMPLIANCE
  STATUS current

 DESCRIPTION
    "When this MIB is implemented with support for read-create, then
    such an implementation can claim full compliance. Such devices
    can then be both monitored and configured with this MIB."

  MODULE IF-MIB -- The interfaces MIB, RFC2863
  MANDATORY-GROUPS {
```

```
  ifCounterDiscontinuityGroup
}

MODULE -- This Module
MANDATORY-GROUPS {
   diffServMIBDataPathGroup, diffServMIBClfrGroup,
   diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
   diffServMIBActionGroup, diffServMIBAlgDropGroup,
   diffServMIBQGroup, diffServMIBSchedulerGroup,
   diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
   diffServMIBCounterGroup
}

GROUP diffServMIBMeterGroup
DESCRIPTION
  "This group is mandatory for devices that implement metering
  functions."

GROUP diffServMIBTBParamGroup
DESCRIPTION
  "This group is mandatory for devices that implement token-bucket
  metering functions."

 GROUP diffServMIBDscpMarkActGroup
DESCRIPTION
  "This group is mandatory for devices that implement DSCP-Marking
  functions."

GROUP diffServMIBRandomDropGroup
DESCRIPTION
  "This group is mandatory for devices that implement Random Drop
  functions."

OBJECT diffServDataPathStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
  "Support for createAndWait and notInService is not required."

OBJECT diffServClfrStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
  "Support for createAndWait and notInService is not required."
```

OBJECT diffServClfrElementStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }

DESCRIPTION
"Support for createAndWait and notInService is not required."

OBJECT diffServMultiFieldClfrAddrType
SYNTAX InetAddressType
{ unknown(0), ipv4(1), ipv6(2) }
DESCRIPTION
"An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr
SYNTAX InetAddress (SIZE(0|4|16))
DESCRIPTION
"An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServAlgDropStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
"Support for createAndWait and notInService is not required."

OBJECT diffServRandomDropStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
"Support for createAndWait and notInService is not required."

OBJECT diffServQStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
"Support for createAndWait and notInService is not required."

OBJECT diffServSchedulerStatus
SYNTAX RowStatus { active(1) }
WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
DESCRIPTION
"Support for createAndWait and notInService is not required."

OBJECT diffServMinRateStatus
SYNTAX RowStatus { active(1) }

```
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT diffServMaxRateStatus
  SYNTAX RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }



  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  ::= { diffServMIBCompliances 1 }

--
-- Read-Only Compliance
--

diffServMIBReadOnlyCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "When this MIB is implemented without support for read-create
    (i.e. in read-only mode), then such an implementation can claim
    read-only compliance. Such a device can then be monitored but can
    not be configured
 with this MIB."

  MODULE IF-MIB -- The interfaces MIB, RFC2863
  MANDATORY-GROUPS {
    ifCounterDiscontinuityGroup
  }

  MODULE -- This Module
  MANDATORY-GROUPS {
     diffServMIBDataPathGroup, diffServMIBClfrGroup,
     diffServMIBClfrElementGroup, diffServMIBMultiFieldClfrGroup,
     diffServMIBActionGroup, diffServMIBAlgDropGroup,
     diffServMIBQGroup, diffServMIBSchedulerGroup,
     diffServMIBMaxRateGroup, diffServMIBMinRateGroup,
     diffServMIBCounterGroup
  }

  GROUP diffServMIBMeterGroup
  DESCRIPTION
    "This group is mandatory for devices that implement metering
    functions."
```

```
GROUP diffServMIBTBParamGroup
DESCRIPTION
  "This group is mandatory for devices that implement token-bucket
  metering functions."

GROUP       diffServMIBDscpMarkActGroup
DESCRIPTION
  "This group is mandatory for devices that implement DSCP-Marking
  functions."

GROUP       diffServMIBRandomDropGroup



 DESCRIPTION
  "This group is mandatory for devices that implement Random Drop
  functions."

OBJECT      diffServDataPathStart
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServDataPathStorage
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServDataPathStatus
SYNTAX       RowStatus { active(1) }
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required, and active is the only status that
  needs to be supported."

OBJECT      diffServClfrNextFree
MIN-ACCESS  not-accessible
DESCRIPTION
  "Object not needed when diffServClfrTable is implemented read-
  only"

OBJECT      diffServClfrStorage
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServClfrStatus
SYNTAX       RowStatus { active(1) }
```

MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServClfrElementNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object not needed when diffServClfrelementTable is implemented read-only"

OBJECT diffServClfrElementPrecedence
MIN-ACCESS read-only
DESCRIPTION

"Write access is not required."

OBJECT diffServClfrElementNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementSpecific
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServClfrElementStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServMultiFieldClfrNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMultiFieldClfrTable is implemented in read-only mode."

OBJECT diffServMultiFieldClfrAddrType

SYNTAX InetAddressType { unknown(0), ipv4(1), ipv6(2) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required to support IPv4 and IPv6 addresses."

OBJECT diffServMultiFieldClfrDstAddr
SYNTAX InetAddress (SIZE(0|4|16))
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrDstPrefixLength
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcAddr
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required. An implementation is only required to support IPv4 and globally unique IPv6 addresses."

OBJECT diffServMultiFieldClfrSrcPrefixLength
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDscp
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrFlowId
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrProtocol
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMin
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrDstL4PortMax
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMin
MIN-ACCESS
read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrSrcL4PortMax
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrStorage
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServMultiFieldClfrStatus
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, createAndWait and notInService
support is not required."

OBJECT diffServMeterNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServMultiFieldClfrTable is
implemented in read-only mode."

OBJECT diffServMeterSucceedNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterFailNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterSpecific
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServMeterStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServTBParamNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServTBParamTable is implemented in
read-only mode."

OBJECT diffServTBParamType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServTBParamBurstSize
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT
diffServTBParamInterval
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

```
  OBJECT      diffServTBParamStorage
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServTBParamStatus
  SYNTAX      RowStatus { active(1) }
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required, and active is the only status that
    needs to be supported."

  OBJECT      diffServActionNextFree
  MIN-ACCESS  not-accessible
  DESCRIPTION
    "Object is not needed when diffServActionTable is implemented in
    read-only mode."

  OBJECT      diffServActionInterface
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServActionNext
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."




  OBJECT      diffServActionSpecific
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access
is not required."

  OBJECT      diffServActionStorage
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServActionStatus
  SYNTAX      RowStatus { active(1) }
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required, and active is the only status that
    needs to be supported."
```

```
OBJECT      diffServCountActNextFree
MIN-ACCESS  not-accessible
DESCRIPTION
  "Object is not needed when diffServCountActTable is implemented
  in read-only mode."

OBJECT      diffServCountActStorage
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServCountActStatus
SYNTAX      RowStatus { active(1) }
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required, and active is the only status that
  needs to be supported."

OBJECT      diffServAlgDropNextFree
MIN-ACCESS  not-accessible
DESCRIPTION
   "Object is not needed when diffServAlgDropTable is implemented in
  read-only mode."

OBJECT      diffServAlgDropType
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServAlgDropNext
MIN-ACCESS  read-only



DESCRIPTION
  "Write access is not required."

OBJECT      diffServAlgDropQMeasure
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServAlgDropQThreshold
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."
```

```
  OBJECT      diffServAlgDropSpecific
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServAlgDropStorage
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServAlgDropStatus
  SYNTAX       RowStatus { active(1) }
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required,
and active is the only status that
    needs to be supported."

  OBJECT      diffServRandomDropNextFree
  MIN-ACCESS  not-accessible
  DESCRIPTION
    "Object is not needed when diffServRandomDropTable is implemented
    in read-only mode."

  OBJECT      diffServRandomDropMinThreshBytes
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServRandomDropMinThreshPkts
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServRandomDropMaxThreshBytes
  MIN-ACCESS  read-only




  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServRandomDropMaxThreshPkts
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServRandomDropProbMax
```

MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServRandomDropWeight
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServRandomDropSamplingRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServRandomDropStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServRandomDropStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that needs to be supported."

OBJECT diffServQNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServQTable is implemented in read-only mode."

OBJECT diffServQNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServQMinRate
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServQMaxRate
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

OBJECT diffServQStorage
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServQStatus
SYNTAX RowStatus { active(1) }
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required, and active is the only status that
needs to be supported."

OBJECT diffServSchedulerNextFree
MIN-ACCESS not-accessible
DESCRIPTION
"Object is not needed when diffServSchedulerTable is implemented
in read-only mode."

OBJECT diffServSchedulerNext
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMethod
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMinRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerMaxRate
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT diffServSchedulerStorage
MIN-ACCESS read-only

DESCRIPTION
"Write access is not required."

```
OBJECT      diffServSchedulerStatus
SYNTAX      RowStatus { active(1) }
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required, and active is the only status that
  needs to be supported."

OBJECT      diffServMinRateNextFree
MIN-ACCESS  not-accessible
DESCRIPTION
  "Object is not needed when diffServMinRateTable is implemented in
  read-only mode."

OBJECT      diffServMinRatePriority
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServMinRateAbsolute
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServMinRateRelative
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

 OBJECT      diffServMinRateStorage
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required."

OBJECT      diffServMinRateStatus
SYNTAX      RowStatus { active(1) }
MIN-ACCESS  read-only
DESCRIPTION
  "Write access is not required, and active is the only status that
  needs to be supported."

OBJECT      diffServMaxRateNextFree
MIN-ACCESS  not-accessible
DESCRIPTION
  "Object is not needed when diffServMaxrateTable is implemented in
  read-only mode."
```

```
  OBJECT      diffServMaxRateAbsolute
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServMaxRateRelative
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServMaxRateThreshold
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required."

  OBJECT      diffServMaxRateStorage
  MIN-ACCESS  read-only
  DESCRIPTION
     "Write access is not required."

  OBJECT      diffServMaxRateStatus
  SYNTAX      RowStatus { active(1) }
  MIN-ACCESS  read-only
  DESCRIPTION
    "Write access is not required, and active is the only status that
    needs to be supported."

  ::= { diffServMIBCompliances 2 }

diffServMIBDataPathGroup OBJECT-GROUP
  OBJECTS {
          diffServDataPathStart, diffServDataPathStorage,
          diffServDataPathStatus
  }
  STATUS      current
  DESCRIPTION
    "The Data Path Group defines the MIB Objects that describe a
    functional data path."
  ::= { diffServMIBGroups 1 }

diffServMIBClfrGroup OBJECT-GROUP
  OBJECTS {
          diffServClfrNextFree, diffServClfrStorage,
          diffServClfrStatus
  }
  STATUS      current
  DESCRIPTION
```

```
      "The Classifier Group defines the MIB Objects that describe the

      list the starts of individual classifiers."
    ::= { diffServMIBGroups 2 }

diffServMIBClfrElementGroup
 OBJECT-GROUP
    OBJECTS {
            diffServClfrElementNextFree,
            diffServClfrElementPrecedence, diffServClfrElementNext,
            diffServClfrElementSpecific, diffServClfrElementStorage,
            diffServClfrElementStatus
    }
    STATUS       current
    DESCRIPTION
      "The Classifier Element Group defines the MIB Objects that
      describe the classifier elements that make up a generic
      classifier."
    ::= { diffServMIBGroups 3 }

diffServMIBMultiFieldClfrGroup OBJECT-GROUP
    OBJECTS {
            diffServMultiFieldClfrNextFree,
            diffServMultiFieldClfrAddrType,
            diffServMultiFieldClfrDstAddr,
            diffServMultiFieldClfrDstPrefixLength,
            diffServMultiFieldClfrFlowId,
            diffServMultiFieldClfrSrcAddr,
            diffServMultiFieldClfrSrcPrefixLength,
            diffServMultiFieldClfrDscp,
            diffServMultiFieldClfrProtocol,
            diffServMultiFieldClfrDstL4PortMin,
             diffServMultiFieldClfrDstL4PortMax,
            diffServMultiFieldClfrSrcL4PortMin,
            diffServMultiFieldClfrSrcL4PortMax,
            diffServMultiFieldClfrStorage,
            diffServMultiFieldClfrStatus
    }
    STATUS       current
    DESCRIPTION
      "The Multi-field Classifier Group defines the MIB Objects that
      describe a classifier element for matching on various fields of
      an IP and upper-layer protocol header."
    ::= { diffServMIBGroups 4 }

diffServMIBMeterGroup OBJECT-GROUP
```

```
  OBJECTS {
          diffServMeterNextFree, diffServMeterSucceedNext,
          diffServMeterFailNext, diffServMeterSpecific,
          diffServMeterStorage, diffServMeterStatus
  }



  STATUS      current
  DESCRIPTION
    "The Meter Group defines the objects used in describing a generic
    meter element."
  ::= { diffServMIBGroups 5 }

diffServMIBTBParamGroup OBJECT-GROUP
  OBJECTS {
          diffServTBParamNextFree,
 diffServTBParamType,
          diffServTBParamRate, diffServTBParamBurstSize,
          diffServTBParamInterval, diffServTBParamStorage,
          diffServTBParamStatus
  }
  STATUS      current
  DESCRIPTION
    "The Token-Bucket Meter Group defines the objects used in
    describing a token bucket meter element."
  ::= { diffServMIBGroups 6 }

diffServMIBActionGroup OBJECT-GROUP
  OBJECTS {
          diffServActionNextFree, diffServActionNext,
          diffServActionSpecific, diffServActionStorage,
          diffServActionInterface, diffServActionStatus
  }
  STATUS      current
  DESCRIPTION
    "The Action Group defines the objects used in describing a
    generic action element."
  ::= { diffServMIBGroups 7 }

diffServMIBDscpMarkActGroup OBJECT-GROUP
  OBJECTS {
          diffServDscpMarkActDscp
  }
  STATUS      current
  DESCRIPTION
    "The DSCP Mark Action Group defines the objects used in
```

```
      describing a DSCP Marking Action element."
  ::= { diffServMIBGroups 8 }

diffServMIBCounterGroup OBJECT-GROUP
  OBJECTS {
          diffServCountActOctets, diffServCountActPkts,
          diffServAlgDropOctets, diffServAlgDropPkts,
          diffServAlgRandomDropOctets, diffServAlgRandomDropPkts,
          diffServCountActStorage, diffServCountActStatus,
          diffServCountActNextFree




  }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing information specific to
    packet-oriented network interfaces."
  ::= { diffServMIBGroups 9 }

diffServMIBAlgDropGroup OBJECT-GROUP
  OBJECTS {
          diffServAlgDropNextFree, diffServAlgDropType,
          diffServAlgDropNext, diffServAlgDropQMeasure,
          diffServAlgDropQThreshold, diffServAlgDropSpecific,
          diffServAlgDropStorage, diffServAlgDropStatus
  }
  STATUS      current
  DESCRIPTION
    "The Algorithmic Drop Group contains
 the objects that describe
    algorithmic dropper operation and configuration."
  ::= { diffServMIBGroups 10 }

diffServMIBRandomDropGroup OBJECT-GROUP
  OBJECTS {
          diffServRandomDropNextFree,
          diffServRandomDropMinThreshBytes,
          diffServRandomDropMinThreshPkts,
          diffServRandomDropMaxThreshBytes,
          diffServRandomDropMaxThreshPkts,
          diffServRandomDropProbMax,
          diffServRandomDropWeight,
          diffServRandomDropSamplingRate,
          diffServRandomDropStorage,
          diffServRandomDropStatus
  }
  STATUS      current
```

```
  DESCRIPTION
    "The Random Drop Group augments the Algorithmic Drop Group for
    random dropper operation and configuration."
  ::= { diffServMIBGroups 11 }

diffServMIBQGroup OBJECT-GROUP

  OBJECTS {
          diffServQNextFree, diffServQNext, diffServQMinRate,
          diffServQMaxRate, diffServQStorage, diffServQStatus

  }
  STATUS      current
  DESCRIPTION
    "The Queue Group contains the objects that describe an




    interface's queues."
  ::= { diffServMIBGroups 12 }

diffServMIBSchedulerGroup OBJECT-GROUP
  OBJECTS {
          diffServSchedulerNextFree, diffServSchedulerNext,
          diffServSchedulerMethod, diffServSchedulerMinRate,
          diffServSchedulerMaxRate, diffServSchedulerStorage,
          diffServSchedulerStatus
  }
  STATUS      current
  DESCRIPTION
    "The Scheduler Group contains the objects that describe packet
    schedulers on interfaces."
  ::= { diffServMIBGroups 13 }

diffServMIBMinRateGroup OBJECT-GROUP
  OBJECTS {
          diffServMinRateNextFree, diffServMinRatePriority,
          diffServMinRateAbsolute, diffServMinRateRelative,
          diffServMinRateStorage, diffServMinRateStatus
  }
  STATUS      current
  DESCRIPTION
    "The Minimum Rate Parameter Group contains the objects that

  describe packet schedulers' minimum rate or priority guarantees."
  ::= { diffServMIBGroups 14 }

diffServMIBMaxRateGroup OBJECT-GROUP
```

```
  OBJECTS {
          diffServMaxRateNextFree, diffServMaxRateAbsolute,
          diffServMaxRateRelative, diffServMaxRateThreshold,
          diffServMaxRateStorage, diffServMaxRateStatus
  }
  STATUS       current
  DESCRIPTION
    "The Maximum Rate Parameter Group contains the objects that
    describe packet schedulers' maximum rate guarantees."
  ::= { diffServMIBGroups 15 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB
No license file was found, but licenses were detected in source scan.

```
RADIUS-ACC-CLIENT-MIB DEFINITIONS ::= BEGIN

IMPORTS
     MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
     Counter32, Integer32, Gauge32,
     IpAddress, TimeTicks, mib-2      FROM SNMPv2-SMI
     SnmpAdminString                  FROM SNMP-FRAMEWORK-MIB
     InetAddressType, InetAddress,
     InetPortNumber                   FROM INET-ADDRESS-MIB
     MODULE-COMPLIANCE, OBJECT-GROUP  FROM SNMPv2-CONF;


radiusAccClientMIB MODULE-IDENTITY
    LAST-UPDATED "200608210000Z" -- 21 August 2006
    ORGANIZATION "IETF RADIUS Extensions Working Group."
    CONTACT-INFO
          " Bernard Aboba
            Microsoft
            One Microsoft Way




            Redmond, WA  98052
            US
            Phone: +1 425 936 6605
            EMail: bernarda@microsoft.com"
    DESCRIPTION
         "The MIB module for entities implementing the client
          side of the Remote
 Authentication Dial-In User Service
          (RADIUS) accounting protocol.  Copyright (C) The
```

```
            Internet Society (2006).  This version of this MIB
            module is part of RFC 4670; see the RFC itself for
            full legal notices."
        REVISION "200608210000Z"  -- 21 August 2006
        DESCRIPTION
            "Revised version as published in RFC 4670.
            This version obsoletes that of RFC 2620 by
            deprecating the MIB table containing IPv4-only
            address formats and defining a new table to add support
            for version-neutral IP address formats.  The remaining
            MIB objects from RFC 2620 are carried forward into this
            version."
        REVISION "199906110000Z"  -- 11 Jun 1999
        DESCRIPTION "Initial version as published in RFC 2620."
        ::= { radiusAccounting 2 }

    radiusMIB OBJECT-IDENTITY
        STATUS  current
        DESCRIPTION
            "The OID assigned to RADIUS MIB work by the IANA."
         ::= { mib-2 67 }

    radiusAccounting  OBJECT IDENTIFIER ::= {radiusMIB 2}

    radiusAccClientMIBObjects     OBJECT IDENTIFIER
        ::= { radiusAccClientMIB 1 }

    radiusAccClient  OBJECT IDENTIFIER
        ::= { radiusAccClientMIBObjects 1 }

    radiusAccClientInvalidServerAddresses OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "The number of RADIUS Accounting-Response packets
            received from unknown addresses."
        ::= { radiusAccClient 1 }




    radiusAccClientIdentifier OBJECT-TYPE
        SYNTAX SnmpAdminString
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
```

```
            "The NAS-Identifier of the RADIUS accounting client.
             This is not necessarily the same as sysName in MIB
             II."
        REFERENCE "RFC 2865 section 5.32"
        ::= { radiusAccClient 2 }

    radiusAccServerTable OBJECT-TYPE
        SYNTAX SEQUENCE OF RadiusAccServerEntry
        MAX-ACCESS not-accessible
         STATUS     deprecated
        DESCRIPTION
            "The (conceptual) table listing the RADIUS accounting
             servers with which the client shares a secret."
        ::= { radiusAccClient 3 }

    radiusAccServerEntry OBJECT-TYPE
        SYNTAX     RadiusAccServerEntry
        MAX-ACCESS not-accessible
        STATUS     deprecated
        DESCRIPTION
            "An entry (conceptual row) representing a RADIUS
             accounting server with which the client shares a
             secret."
        INDEX      { radiusAccServerIndex }
        ::= { radiusAccServerTable 1 }

    RadiusAccServerEntry ::= SEQUENCE {
        radiusAccServerIndex                    Integer32,
        radiusAccServerAddress                   IpAddress,
        radiusAccClientServerPortNumber             Integer32,
        radiusAccClientRoundTripTime               TimeTicks,
        radiusAccClientRequests                  Counter32,
        radiusAccClientRetransmissions
      Counter32,
        radiusAccClientResponses                  Counter32,
        radiusAccClientMalformedResponses            Counter32,
        radiusAccClientBadAuthenticators            Counter32,
        radiusAccClientPendingRequests               Gauge32,
        radiusAccClientTimeouts                  Counter32,
        radiusAccClientUnknownTypes                 Counter32,
        radiusAccClientPacketsDropped               Counter32
    }




    radiusAccServerIndex OBJECT-TYPE
```

```
    SYNTAX     Integer32 (1..2147483647)
    MAX-ACCESS not-accessible
    STATUS     deprecated
    DESCRIPTION
        "A number uniquely identifying each RADIUS
         Accounting server with which this client
         communicates."
    ::= { radiusAccServerEntry 1 }

radiusAccServerAddress OBJECT-TYPE
    SYNTAX     IpAddress
    MAX-ACCESS read-only
    STATUS     deprecated
    DESCRIPTION
        "The IP address of the RADIUS accounting server

    referred to in this table entry."
    ::= { radiusAccServerEntry 2 }

radiusAccClientServerPortNumber  OBJECT-TYPE
    SYNTAX Integer32 (0..65535)
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The UDP port the client is using to send requests to
         this server."
    REFERENCE "RFC 2866 section 3"
    ::= { radiusAccServerEntry 3 }

radiusAccClientRoundTripTime  OBJECT-TYPE
    SYNTAX TimeTicks
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
         "The time interval between the most recent
         Accounting-Response and the Accounting-Request that
         matched it from this RADIUS accounting server."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerEntry 4 }

-- Request/Response statistics
--
-- Requests = Responses + PendingRequests + ClientTimeouts
--
-- Responses - MalformedResponses - BadAuthenticators -
-- UnknownTypes - PacketsDropped = Successfully received
```

```
radiusAccClientRequests
 OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
         sent.  This does not include retransmissions."
    REFERENCE "RFC 2866 section 4.1"
    ::= { radiusAccServerEntry 5 }

radiusAccClientRetransmissions OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
         retransmitted to this RADIUS accounting server.
         Retransmissions include retries where the
         Identifier and Acct-Delay have been updated, as
         well as those in which they remain the same."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerEntry 6 }

radiusAccClientResponses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
     DESCRIPTION
        "The number of RADIUS packets received on the
         accounting port from this server."
    REFERENCE "RFC 2866 section 4.2"
    ::= { radiusAccServerEntry 7 }

radiusAccClientMalformedResponses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS deprecated
    DESCRIPTION
        "The number of malformed RADIUS Accounting-Response
         packets received from this server.  Malformed packets
```

```
            include packets with an invalid length.  Bad
            authenticators and unknown types are not included as
            malformed accounting responses."
        REFERENCE "RFC 2866 section 3"



        ::= { radiusAccServerEntry 8 }

    radiusAccClientBadAuthenticators OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS Accounting-Response
            packets that contained invalid
     authenticators
            received from this server."
        REFERENCE "RFC 2866 section 3"
        ::= { radiusAccServerEntry 9 }

    radiusAccClientPendingRequests OBJECT-TYPE
        SYNTAX Gauge32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS Accounting-Request packets
            sent to this server that have not yet timed out or
            received a response.  This variable is incremented
            when an Accounting-Request is sent and decremented
            due to receipt of an Accounting-Response, a timeout,
            or a retransmission."
        REFERENCE "RFC 2866 section 2"
        ::= { radiusAccServerEntry 10 }

    radiusAccClientTimeouts OBJECT-TYPE
       SYNTAX Counter32
       UNITS "timeouts"
       MAX-ACCESS read-only
       STATUS deprecated
       DESCRIPTION
           "The number of accounting timeouts to this server.
           After a timeout, the client may retry to the same

      server, send to a different server, or give up.
           A retry to the same server is counted as a
```

```
            retransmit as well as a timeout.  A send to a different
            server is counted as an Accounting-Request as well as
            a timeout."
        REFERENCE "RFC 2866 section 2"
        ::= { radiusAccServerEntry  11 }

    radiusAccClientUnknownTypes OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"



        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS packets of unknown type that
             were received from this server on the accounting port."
        REFERENCE "RFC 2866 section 4"
        ::= { radiusAccServerEntry  12 }

    radiusAccClientPacketsDropped OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS deprecated
        DESCRIPTION
            "The number of RADIUS packets that were received from
             this server on the accounting port and dropped for some

         other reason."
        ::= { radiusAccServerEntry  13 }


    -- New MIB objects added in this revision

    radiusAccServerExtTable OBJECT-TYPE
        SYNTAX SEQUENCE OF RadiusAccServerExtEntry
        MAX-ACCESS not-accessible
        STATUS     current
        DESCRIPTION
            "The (conceptual) table listing the RADIUS accounting
             servers with which the client shares a secret."
        ::= { radiusAccClient 4 }

    radiusAccServerExtEntry OBJECT-TYPE
        SYNTAX     RadiusAccServerExtEntry
        MAX-ACCESS not-accessible
        STATUS     current
```

```
    DESCRIPTION
        "An entry (conceptual row) representing a RADIUS
         accounting server with which the client shares a
         secret."
    INDEX      { radiusAccServerExtIndex }
    ::= { radiusAccServerExtTable 1 }

RadiusAccServerExtEntry ::= SEQUENCE {
    radiusAccServerExtIndex                 Integer32,
    radiusAccServerInetAddressType          InetAddressType,
    radiusAccServerInetAddress
            InetAddress,
    radiusAccClientServerInetPortNumber     InetPortNumber,
    radiusAccClientExtRoundTripTime         TimeTicks,



    radiusAccClientExtRequests              Counter32,
    radiusAccClientExtRetransmissions       Counter32,
    radiusAccClientExtResponses             Counter32,
    radiusAccClientExtMalformedResponses    Counter32,
    radiusAccClientExtBadAuthenticators     Counter32,
    radiusAccClientExtPendingRequests       Gauge32,
    radiusAccClientExtTimeouts              Counter32,
    radiusAccClientExtUnknownTypes          Counter32,
    radiusAccClientExtPacketsDropped        Counter32,
    radiusAccClientCounterDiscontinuity     TimeTicks
}

radiusAccServerExtIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..2147483647)
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "A number uniquely identifying each RADIUS
         Accounting server
 with which this client
         communicates."
    ::= { radiusAccServerExtEntry 1 }


radiusAccServerInetAddressType OBJECT-TYPE
       SYNTAX     InetAddressType
       MAX-ACCESS read-only
       STATUS     current
       DESCRIPTION
           "The type of address format used for the
            radiusAccServerInetAddress object."
```

```
        ::= { radiusAccServerExtEntry 2 }


  radiusAccServerInetAddress OBJECT-TYPE
        SYNTAX     InetAddress
        MAX-ACCESS read-only
        STATUS     current
        DESCRIPTION
            "The IP address of the RADIUS accounting
             server referred to in this table entry, using
             the version-neutral IP address format."
        ::= { radiusAccServerExtEntry 3 }

  radiusAccClientServerInetPortNumber  OBJECT-TYPE
        SYNTAX InetPortNumber ( 1..65535 )
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION



            "The UDP port the client is using
 to send requests
             to this accounting server.  The value zero (0) is
             invalid."
        REFERENCE "RFC 2866 section 3"
        ::= { radiusAccServerExtEntry 4 }


 radiusAccClientExtRoundTripTime  OBJECT-TYPE
     SYNTAX TimeTicks
     MAX-ACCESS read-only
     STATUS current
     DESCRIPTION
          "The time interval between the most recent
          Accounting-Response and the Accounting-Request that
          matched it from this RADIUS accounting server."
     REFERENCE "RFC 2866 section 2"
     ::= { radiusAccServerExtEntry 5 }

 -- Request/Response statistics
 --
 -- Requests = Responses + PendingRequests + ClientTimeouts
 --
 -- Responses - MalformedResponses - BadAuthenticators -
 -- UnknownTypes - PacketsDropped = Successfully received

 radiusAccClientExtRequests OBJECT-TYPE
```

```
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Request
 packets
         sent.  This does not include retransmissions.
         This counter may experience a discontinuity when the
         RADIUS Accounting Client module within the managed
         entity is reinitialized, as indicated by the current
         value of radiusAccClientCounterDiscontinuity."
    REFERENCE "RFC 2866 section 4.1"
    ::= { radiusAccServerExtEntry 6 }

radiusAccClientExtRetransmissions OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
         retransmitted to this RADIUS accounting server.



         Retransmissions include retries where the
         Identifier and Acct-Delay have been updated, as
         well as those in which they remain the same.
         This counter may experience a discontinuity when the
         RADIUS Accounting Client module within the managed

   entity is reinitialized, as indicated by the current
         value of radiusAccClientCounterDiscontinuity."
    REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerExtEntry 7 }

radiusAccClientExtResponses OBJECT-TYPE
    SYNTAX Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS packets received on the
         accounting port from this server.  This counter
         may experience a discontinuity when the RADIUS
         Accounting Client module within the managed entity is
         reinitialized, as indicated by the current value of
```

radiusAccClientCounterDiscontinuity."
REFERENCE "RFC 2866 section 4.2"
::= { radiusAccServerExtEntry 8 }

radiusAccClientExtMalformedResponses OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of malformed RADIUS Accounting-Response
packets received from this server. Malformed packets
include packets with an invalid length. Bad
authenticators and unknown types are not included as
malformed accounting responses. This counter may
experience a discontinuity when the RADIUS Accounting
Client module within the managed entity is
reinitialized, as indicated by the current
value of radiusAccClientCounterDiscontinuity."
REFERENCE "RFC 2866 section 3"
::= { radiusAccServerExtEntry 9 }

radiusAccClientExtBadAuthenticators OBJECT-TYPE
SYNTAX Counter32
UNITS "packets"
MAX-ACCESS read-only
STATUS current

DESCRIPTION
"The number of RADIUS Accounting-Response
packets that contained invalid authenticators
received from this server. This counter may
experience a discontinuity when the RADIUS
Accounting Client
module within the managed
entity is reinitialized, as indicated by the
current value of
radiusAccClientCounterDiscontinuity."
REFERENCE "RFC 2866 section 3"
::= { radiusAccServerExtEntry 10 }

radiusAccClientExtPendingRequests OBJECT-TYPE
SYNTAX Gauge32
UNITS "packets"
MAX-ACCESS read-only
STATUS current

```
    DESCRIPTION
        "The number of RADIUS Accounting-Request packets
         sent to this server that have not yet timed out or
         received a response.  This variable is incremented
         when an Accounting-Request is sent and decremented
         due to receipt of an Accounting-Response, a timeout,
         or a retransmission.  This counter may experience a
         discontinuity when the RADIUS Accounting Client module
         within the managed entity is reinitialized, as
         indicated by the current value of
         radiusAccClientCounterDiscontinuity."
     REFERENCE "RFC 2866 section 2"
    ::= { radiusAccServerExtEntry 11 }

radiusAccClientExtTimeouts OBJECT-TYPE
   SYNTAX Counter32
   UNITS "timeouts"
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
       "The number of accounting timeouts to this server.
        After a timeout, the client may retry to the same
        server, send to a different server, or give up.
        A retry to the same server is counted as a
        retransmit as well as a timeout.  A send to a different
        server is counted as an Accounting-Request as well as
        a timeout.  This counter may experience a discontinuity
        when the RADIUS Accounting Client module within the
        managed entity is reinitialized, as indicated by the
        current value of radiusAccClientCounterDiscontinuity."
    REFERENCE "RFC 2866 section 2"



    ::= { radiusAccServerExtEntry  12 }

radiusAccClientExtUnknownTypes OBJECT-TYPE
    SYNTAX
 Counter32
    UNITS "packets"
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of RADIUS packets of unknown type that
         were received from this server on the accounting port.
         This counter may experience a discontinuity when the
         RADIUS Accounting Client module within the managed
         entity is reinitialized, as indicated by the current
```

```
            value of radiusAccClientCounterDiscontinuity."
        REFERENCE "RFC 2866 section 4"
        ::= { radiusAccServerExtEntry  13 }

    radiusAccClientExtPacketsDropped OBJECT-TYPE
        SYNTAX Counter32
        UNITS "packets"
        MAX-ACCESS read-only
        STATUS current
        DESCRIPTION
            "The number of RADIUS packets that were received from
            this server on the accounting port and dropped for some
            other reason.  This counter may experience a
            discontinuity when the RADIUS Accounting Client module
            within
     the managed entity is reinitialized, as indicated
            by the current value of
            radiusAccClientCounterDiscontinuity."
        ::= { radiusAccServerExtEntry  14 }

    radiusAccClientCounterDiscontinuity OBJECT-TYPE
            SYNTAX TimeTicks
            UNITS "centiseconds"
            MAX-ACCESS read-only
            STATUS current
            DESCRIPTION
                "The number of centiseconds since the last
                discontinuity in the RADIUS Accounting Client
                counters.  A discontinuity may be the result of a
                reinitialization of the RADIUS Accounting Client
                module within the managed entity."
            ::= { radiusAccServerExtEntry 15 }




    -- conformance information

    radiusAccClientMIBConformance  OBJECT IDENTIFIER
        ::= { radiusAccClientMIB 2 }

    radiusAccClientMIBCompliances  OBJECT IDENTIFIER
        ::= { radiusAccClientMIBConformance 1 }

    radiusAccClientMIBGroups  OBJECT IDENTIFIER
```

```
    ::= { radiusAccClientMIBConformance
 2 }


-- units of conformance

radiusAccClientMIBCompliance MODULE-COMPLIANCE
   STATUS  deprecated
   DESCRIPTION
        "The compliance statement for accounting clients
         implementing the RADIUS Accounting Client MIB.
         Implementation of this module is for IPv4-only
         entities, or for backwards compatibility use with
         entities that support both IPv4 and IPv6."
   MODULE  -- this module
      MANDATORY-GROUPS { radiusAccClientMIBGroup }

   ::= { radiusAccClientMIBCompliances 1 }


radiusAccClientExtMIBCompliance MODULE-COMPLIANCE
   STATUS  current
   DESCRIPTION
        "The compliance statement for accounting
         clients implementing the RADIUS Accounting
         Client IPv6 Extensions MIB.  Implementation of
         this module is for entities that support IPv6,
         or support IPv4 and IPv6."
   MODULE  -- this module
      MANDATORY-GROUPS { radiusAccClientExtMIBGroup }

   OBJECT
 radiusAccServerInetAddressType
   SYNTAX InetAddressType { ipv4(1), ipv6(2) }
   DESCRIPTION
        "An implementation is only required to support
         IPv4 and globally unique IPv6 addresses."

   OBJECT radiusAccServerInetAddress
   SYNTAX InetAddress ( SIZE (4|16) )
   DESCRIPTION



        "An implementation is only required to support
         IPv4 and globally unique IPv6 addresses."

   ::= { radiusAccClientMIBCompliances 2 }
```

```
-- units of conformance

radiusAccClientMIBGroup OBJECT-GROUP
   OBJECTS { radiusAccClientIdentifier,
             radiusAccClientInvalidServerAddresses,
             radiusAccServerAddress,
             radiusAccClientServerPortNumber,
             radiusAccClientRoundTripTime,
             radiusAccClientRequests,
             radiusAccClientRetransmissions,
             radiusAccClientResponses,
             radiusAccClientMalformedResponses,
             radiusAccClientBadAuthenticators,

          radiusAccClientPendingRequests,
             radiusAccClientTimeouts,
             radiusAccClientUnknownTypes,
             radiusAccClientPacketsDropped
          }
   STATUS  deprecated
   DESCRIPTION
        "The basic collection of objects providing management of
         RADIUS Accounting Clients."
   ::= { radiusAccClientMIBGroups 1 }


radiusAccClientExtMIBGroup OBJECT-GROUP
   OBJECTS { radiusAccClientIdentifier,
             radiusAccClientInvalidServerAddresses,
             radiusAccServerInetAddressType,
             radiusAccServerInetAddress,
             radiusAccClientServerInetPortNumber,
             radiusAccClientExtRoundTripTime,
             radiusAccClientExtRequests,
             radiusAccClientExtRetransmissions,
             radiusAccClientExtResponses,
             radiusAccClientExtMalformedResponses,
             radiusAccClientExtBadAuthenticators,
             radiusAccClientExtPendingRequests,

   radiusAccClientExtTimeouts,
             radiusAccClientExtUnknownTypes,
             radiusAccClientExtPacketsDropped,
             radiusAccClientCounterDiscontinuity
```

```
    }
  STATUS  current
  DESCRIPTION
      "The basic collection of objects providing management of
       RADIUS Accounting Clients."
  ::= { radiusAccClientMIBGroups 2 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RADIUS-ACC-CLIENT-MIB
No license file was found, but licenses were detected in source scan.

```
MIOX25-MIB DEFINITIONS  ::= BEGIN

IMPORTS
      Counter,
      TimeTicks
            FROM RFC1155-SMI
      OBJECT-TYPE
            FROM RFC-1212
      DisplayString, transmission,
      ifIndex
            FROM RFC1213-MIB
      InstancePointer
            FROM RFC1316-MIB
      X121Address
            FROM RFC1382-MIB
      PositiveInteger
            FROM RFC1381-MIB;

            -- IP over X.25 MIB

miox    OBJECT IDENTIFIER ::= { transmission 38 }

mioxPle         OBJECT IDENTIFIER ::= { miox 1 }
mioxPeer        OBJECT IDENTIFIER ::= { miox 2 }

-- ###############################################################
--              Ple Table
-- ###############################################################

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPleTable    OBJECT-TYPE
```

```
        SYNTAX  SEQUENCE OF MioxPleEntry
        ACCESS  not-accessible
         STATUS  mandatory
        DESCRIPTION
                "This table contains information relative to
                an interface to an X.25 Packet Level Entity
                (PLE)."
        ::= { mioxPle 1   }

    mioxPleEntry    OBJECT-TYPE
        SYNTAX  MioxPleEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
                "These objects manage the encapsulation of
                other protocols within X.25."
        INDEX { ifIndex }
        ::= { mioxPleTable 1 }

    MioxPleEntry ::= SEQUENCE {
        mioxPleMaxCircuits
                INTEGER,
        mioxPleRefusedConnections
                Counter,
        mioxPleEnAddrToX121LkupFlrs
                Counter,
        mioxPleLastFailedEnAddr
                OCTET STRING,
        mioxPleEnAddrToX121LkupFlrTime
                TimeTicks,
        mioxPleX121ToEnAddrLkupFlrs
                Counter,
        mioxPleLastFailedX121Address
                X121Address,
        mioxPleX121ToEnAddrLkupFlrTime
                 TimeTicks,
        mioxPleQbitFailures
                Counter,
        mioxPleQbitFailureRemoteAddress
                X121Address,
        mioxPleQbitFailureTime
                TimeTicks,
        mioxPleMinimumOpenTimer
                PositiveInteger,
        mioxPleInactivityTimer
                PositiveInteger,
        mioxPleHoldDownTimer
                PositiveInteger,
```

```
        mioxPleCollisionRetryTimer
                PositiveInteger,
        mioxPleDefaultPeerId
                InstancePointer
        }

mioxPleMaxCircuits OBJECT-TYPE
        SYNTAX  INTEGER (0..2147483647)
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
                "The maximum number of X.25 circuits that
                can be open at one time for this interface.
                A value of zero indicates the interface will
                not allow any additional circuits (as it may
                soon be shutdown).  A value of 2147483647
                 allows an unlimited number of circuits."
        ::= { mioxPleEntry 1 }

mioxPleRefusedConnections OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
                "The number of X.25 calls from a remote
                systems to this system that were cleared by
                this system.  The interface instance should
                identify the X.25 interface the call came in
                on."
        ::= { mioxPleEntry 2 }

mioxPleEnAddrToX121LkupFlrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
                "The number of times a translation from an
                Encapsulated Address to an X.121 address
                failed to find a corresponding X.121
                address.  Encapsulated addresses can be
                looked up in the mioxPeerTable or translated
                via an algorithm as for the DDN.  Addresses

                that are successfully recognized do not
                increment this counter.  Addresses that are
                not recognized (reflecting an abnormal
                packet delivery condition) increment this
                counter.
```

```
            If an address translation fails, it may be
            difficult to determine which PLE entry
            should count the failure.  In such cases the
            first likely entry in this table should be
            selected.  Agents should record the failure
            even if they are unsure which PLE should be
            associated with the failure."
        ::= { mioxPleEntry 3 }

mioxPleLastFailedEnAddr OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(2..128))
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The last Encapsulated address that failed
            to find a corresponding X.121 address and
            caused mioxPleEnAddrToX121LkupFlrs
 to be
            incremented.  The first octet of this object
            contains the encapsulation type, the
            remaining octets contain the address of that
            type that failed.  Thus for an IP address,
            the length will be five octets, the first
            octet will contain 204 (hex CC), and the
            last four octets will contain the IP
            address.  For a snap encapsulation, the
            first byte would be 128 (hex 80) and the
            rest of the octet string would have the snap
            header."
        ::= { mioxPleEntry 4 }

mioxPleEnAddrToX121LkupFlrTime OBJECT-TYPE
        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when the
            translation from an Encapsulated Address to
            X.121 address failed to find a corresponding
            X.121 address."
         ::= { mioxPleEntry 5 }


mioxPleX121ToEnAddrLkupFlrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
```

```
        DESCRIPTION
            "The number of times the translation from an
            X.121 address to an Encapsulated Address
            failed to find a corresponding Encapsulated
            Address.  Addresses successfully recognized
            by an algorithm do not increment this
            counter.  This counter reflects the number
            of times call acceptance encountered the
            abnormal condition of not recognizing the
            peer."
        ::= { mioxPleEntry 6 }

    mioxPleLastFailedX121Address OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The last X.121 address that caused
            mioxPleX121ToEnAddrLkupFlrs to increase."
        ::= { mioxPleEntry 7 }

    mioxPleX121ToEnAddrLkupFlrTime
     OBJECT-TYPE
        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when the
            translation from an X.121 address to an
            Encapsulated Address failed to find a
            corresponding Encapsulated Address."
        ::= { mioxPleEntry 8 }

    mioxPleQbitFailures OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The number of times a connection was closed
            because of a Q-bit failure."
        ::= { mioxPleEntry 9 }

    mioxPleQbitFailureRemoteAddress OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The remote address of the most recent
```

```
            (last) connection that was closed because of
            a Q-bit failure."
        ::= { mioxPleEntry 10 }

mioxPleQbitFailureTime OBJECT-TYPE

        SYNTAX  TimeTicks
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "The most recent value of sysUpTime when a
            connection was closed because of a Q-bit
            failure.  This will also be the last time
            that mioxPleQbitFailures was incremented."
        ::= { mioxPleEntry 11 }

mioxPleMinimumOpenTimer OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The minimum time in milliseconds this
            interface will keep a connection open before
            allowing it to be closed.  A value of zero
            indicates no timer."
        DEFVAL { 0 }
        ::= { mioxPleEntry 12 }

mioxPleInactivityTimer OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The amount of time time in milliseconds
            this interface will
 keep an idle connection
            open before closing it.  A value of
            2147483647 indicates no timer."
        DEFVAL { 10000 }
        ::= { mioxPleEntry 13 }

mioxPleHoldDownTimer    OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The hold down timer in milliseconds.  This
            is the minimum amount of time to wait before
```

```
            trying another call to a host that was
            previously unsuccessful.  A value of
            2147483647 indicates the host will not be
            retried."
        DEFVAL { 0 }
        ::= { mioxPleEntry 14 }

mioxPleCollisionRetryTimer OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The Collision Retry Timer in milliseconds.
            The time to delay between call attempts when
            the maximum number of circuits
 is exceeded
            in a call attempt."
        DEFVAL { 0 }
        ::= { mioxPleEntry 15 }


mioxPleDefaultPeerId OBJECT-TYPE
        SYNTAX  InstancePointer
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "This identifies the instance of the index
            in the mioxPeerTable for the default
            parameters to use with this interface.

            The entry identified by this object may have
            a zero length Encapsulation address and a
            zero length X.121 address.

            These default parameters are used with
            connections to hosts that do not have
            entries in the mioxPeerTable.  Such
            connections occur when using ddn-x25 IP-X.25
            address mapping or when accepting
            connections from other hosts not in the
            mioxPeerTable.

            The mioxPeerEncTable entry with the same

          index as the mioxPeerTable entry specifies
            the call encapsulation types this PLE will
            accept for peers not in the mioxPeerTable.
            If the mioxPeerEncTable doesn't contain any
```

```
            entries, this PLE will not accept calls from
            entries not in the miox PeerTable."
        ::= { mioxPleEntry 16 }



-- ###########################################################
--              Peer Table
-- ###########################################################

-- Systems that implement RFC 1356 must also implement
-- all objects in this group.

mioxPeerTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF MioxPeerEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
            "This table contains information about the
            possible peers this machine may exchange
            packets with."
        ::= { mioxPeer 1 }

mioxPeerEntry OBJECT-TYPE
        SYNTAX  MioxPeerEntry

 ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
            "Per peer information."
        INDEX { mioxPeerIndex   }
        ::= { mioxPeerTable 1 }


MioxPeerEntry ::= SEQUENCE {
        mioxPeerIndex
            PositiveInteger,
        mioxPeerStatus
            INTEGER,
        mioxPeerMaxCircuits
            PositiveInteger,
        mioxPeerIfIndex
            PositiveInteger,
        mioxPeerConnectSeconds
            Counter,
        mioxPeerX25CallParamId
            InstancePointer,
        mioxPeerEnAddr
```

```
            OCTET STRING,
        mioxPeerX121Address
            X121Address,
        mioxPeerX25CircuitId
            InstancePointer,
        mioxPeerDescr
            DisplayString
        }

mioxPeerIndex   OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
            "An index value that distinguished one entry
            from another.
  This index is independent of
            any other index."
        ::= { mioxPeerEntry 1 }

-- Systems can claim conformance with this MIB without
-- implementing sets to mioxPeerStatus with a value of
-- clearCall or makeCall.
-- All other defined values must be accepted.
-- Implementors should realize that allowing these values
-- provides richer management, and implementations
-- are encouraged to accept these values.
mioxPeerStatus OBJECT-TYPE
        SYNTAX  INTEGER {
                    valid (1),
                    createRequest (2),
                    underCreation (3),
                    invalid (4),
                    clearCall (5),
                    makeCall (6)
                    }
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "This reports the status of a peer entry.
            A value of valid indicates a normal entry
            that is in use by the agent.  A value of

          underCreation indicates a newly created
            entry which isn't yet in use because the
            creating management station is still setting
            values.
```

The value of invalid indicates the entry is no longer in use and the agent is free to delete the entry at any time. A management station is also free to use an entry in the invalid state.

Entries are created by setting a value of createRequest. Only non-existent or invalid entries can be set to createRequest. Upon receiving a valid createRequest, the agent will create an entry in the underCreation state. This object can not be set to a value of underCreation directly, entries can only be created by setting a value of createRequest. Entries that exist in other

than the invalid state can not be set to createRequest.

Entries with a value of underCreation are not used by the system and the management station can change the values of other objects in the table entry. Management stations should also remember to configure values in the mioxPeerEncTable with the same peer index value as this peer entry.

An entry in the underCreation state can be set to valid or invalid. Entries in the underCreation state will stay in that state until 1) the agent times them out, 2) they are set to valid, 3) they are set to invalid. If an agent notices an entry has been in the underCreation state for an abnormally long time, it may decide the management station has failed and invalidate

the entry. A prudent agent will understand that the management station may need to wait for human input and will allow for that possibility in its determination of this abnormally long period.

Once a management station has completed all fields of an entry, it will set a value of valid. This causes the entry to be activated.

```
                Entries in the valid state may also be set
                to makeCall or clearCall to make or clear
                X.25 calls to the peer.  After such a set
                request the entry will still be in the valid
                state.  Setting a value of makeCall causes
                the agent to initiate an X.25 call request
                to the peer specified by the entry.  Setting
                a value of clearCall causes the agent to
                initiate clearing one X.25 call present
to
                the peer.  Each set request will initiate
                another call or clear request (up to the
                maximum allowed); this means that management
                stations that fail to get a response to a
                set request should query to see if a call
                was in fact placed or cleared before
                retrying the request.  Entries not in the
                valid state can not be set to makeCall or
                clearCall.

                The values of makeCall and clearCall provide
                for circuit control on devices which perform
                Ethernet Bridging using static circuit
                assignment without address recognition;
                other devices which dynamically place calls
                based on destination addresses may reject
                such requests.

                An agent that (re)creates a new entry
                because of a set with createRequest, should

            also (re)create a mioxPeerEncTable entry
                with a mioxPeerEncIndex of 1, and a
                mioxPeerEncType of 204 (hex CC)."
            ::= { mioxPeerEntry 2 }

        mioxPeerMaxCircuits OBJECT-TYPE
            SYNTAX  PositiveInteger
            ACCESS  read-write
            STATUS    mandatory
            DESCRIPTION
                "The maximum number of X.25 circuits allowed
                to this peer."
            DEFVAL { 1 }
            ::= { mioxPeerEntry 3 }

        mioxPeerIfIndex OBJECT-TYPE
            SYNTAX  PositiveInteger
```

```
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
                "The value of the ifIndex object for the
                interface to X.25 to use to call the peer."
        DEFVAL { 1 }
        ::= { mioxPeerEntry 4 }

mioxPeerConnectSeconds OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        DESCRIPTION
                "The number of seconds a call to this peer
                was active.  This counter
 will be
                incremented by one for every second a
                connection to a peer was open.  If two calls
                are open at the same time, one second of
                elapsed real time will results in two
                seconds of connect time."
        ::= { mioxPeerEntry 5 }

mioxPeerX25CallParamId OBJECT-TYPE
        SYNTAX  InstancePointer
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
                "The instance of the index object in the
                x25CallParmTable from RFC 1382 for the X.25
                call parameters used to communicate with the
                remote host.  The well known value {0 0}
                indicates no call parameters specified."
        DEFVAL { {0 0} }
        ::= { mioxPeerEntry 6 }

mioxPeerEnAddr  OBJECT-TYPE
        SYNTAX    OCTET STRING (SIZE (0..128))
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
                "The Encapsulation address of the remote
                 host mapped by this table entry.  A length
                of zero indicates the remote IP address is
                unknown or unspecified for use as a PLE
                default.

                The first octet of this object contains the
```

```
            encapsulation type, the remaining octets
            contain an address of that type.  Thus for
            an IP address, the length will be five
            octets, the first octet will contain 204
            (hex CC), and the last four octets will
            contain the IP address.  For a snap
            encapsulation, the first byte would be 128
            (hex 80) and the rest of the octet string
            would have the snap header."
        DEFVAL { "h }
        ::= { mioxPeerEntry 7 }

mioxPeerX121Address OBJECT-TYPE
        SYNTAX  X121Address
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The X.25 address of the remote
 host mapped
            by this table entry.  A zero length string
            indicates the X.25 address is unspecified
            for use as the PLE default."
        DEFVAL { "h }
        ::= { mioxPeerEntry 8 }

-- Systems can claim conformance to this MIB without
-- implementing sets to mioxPeerX25CircuitId.
-- However systems that use PVCs with RFC1356
-- are encouraged to implement sets.
mioxPeerX25CircuitId OBJECT-TYPE
        SYNTAX  InstancePointer
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "This object identifies the instance of the
            index for the X.25 circuit open to the peer
            mapped by this table entry.  The well known
            value {0 0} indicates no connection
            currently active.  For multiple connections,
            this identifies the index of a multiplexing
            table entry for the connections.  This can
            only be written to configure
 use of PVCs
            which means the identified circuit table
            entry for a write must be a PVC."
        DEFVAL { {0 0} }
        ::= { mioxPeerEntry 9 }
```

```
mioxPeerDescr   OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      DESCRIPTION
            "This object returns any identification
            information about the peer.  An agent may
            supply the comment information found in the
            configuration file entry for this peer.  A
            zero length string indicates no information
            available."
      DEFVAL { "h }
      ::= { mioxPeerEntry 10 }



-- ###########################################################
--            Peer Encapsulation Table
-- ###########################################################

mioxPeerEncTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF MioxPeerEncEntry
      ACCESS  not-accessible
      STATUS
  mandatory
      DESCRIPTION
            "This table contains the list of
            encapsulations used to communicate with a
            peer.  This table has two indexes, the first
            identifies the peer, the second
            distinguishes encapsulation types.

            The first index identifies the corresponding
            entry in the mioxPeerTable.  The second
            index gives the priority of the different
            encapsulations.

            The encapsulation types are ordered in
            priority order.  For calling a peer, the
            first entry (mioxPeerEncIndex of 1) is tried
            first.  If the call doesn't succeed because
            the remote host clears the call due to
            incompatible call user data, the next entry
            in the list is tried.  Each entry is tried
            until the list is exhausted.

            For answering a call, the
```

```
 encapsulation type
            requested by the peer must be found the list
            or the call will be refused.  If there are
            no entries in this table for a peer, all
            call requests from the peer will be refused.

            Objects in this table can only be set when
            the mioxPeerStatus object with the same
            index has a value of underCreation.  When
            that status object is set to invalid and
            deleted, the entry in this table with that
            peer index must also be deleted."
        ::= { mioxPeer 2 }

mioxPeerEncEntry OBJECT-TYPE
        SYNTAX  MioxPeerEncEntry
        ACCESS  not-accessible
        STATUS  mandatory
        DESCRIPTION
            "Per connection information."
        INDEX { mioxPeerIndex, mioxPeerEncIndex}
        ::= { mioxPeerEncTable 1 }

MioxPeerEncEntry ::= SEQUENCE {
        mioxPeerEncIndex
            PositiveInteger,
        mioxPeerEncType
             INTEGER
        }

mioxPeerEncIndex        OBJECT-TYPE
        SYNTAX  PositiveInteger
        ACCESS  read-only
        STATUS    mandatory
        DESCRIPTION
            "The second index in the table which
            distinguishes different encapsulation
            types."
        ::= { mioxPeerEncEntry 1 }

mioxPeerEncType OBJECT-TYPE
        SYNTAX  INTEGER (0..256)
        ACCESS  read-write
        STATUS  mandatory
        DESCRIPTION
            "The value of the encapsulation type.  For
            IP encapsulation this will have a value of
            204 (hex CC).  For SNAP encapsulated
```

```
            packets, this will have a value of 128 (hex
            80).  For CLNP, ISO 8473, this will have a
            value of 129 (hex 81).  For ES-ES, ISO 9542,
            this will have a value of 130 (hex 82).  A
            value of 197 (hex C5) identifies the Blacker
            X.25 encapsulation.  A value
 of 0,
            identifies the Null encapsulation.

            This value can only be written when the
            mioxPeerStatus object with the same
            mioxPeerIndex has a value of underCreation.
            Setting this object to a value of 256
            deletes the entry.  When deleting an entry,
            all other entries in the mioxPeerEncTable
            with the same mioxPeerIndex and with an
            mioxPeerEncIndex higher then the deleted
            entry, will all have their mioxPeerEncIndex
            values decremented by one."
      ::= { mioxPeerEncEntry 2 }

-- ##############################################################

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-MIB
No license file was found, but licenses were detected in source scan.

RFC1158-MIB DEFINITIONS ::= BEGIN

IMPORTS
      mgmt, OBJECT-TYPE, NetworkAddress, IpAddress,
      Counter, Gauge, TimeTicks
         FROM RFC1155-SMI;

DisplayString ::=
         OCTET STRING

mib-2      OBJECT IDENTIFIER ::= { mgmt 1 }     -- MIB-II
         -- (same prefix as MIB-I)

system     OBJECT IDENTIFIER ::= { mib-2 1 }
interfaces OBJECT IDENTIFIER ::= { mib-2 2 }
at         OBJECT IDENTIFIER ::= { mib-2 3 }
ip         OBJECT IDENTIFIER ::= { mib-2 4 }
icmp       OBJECT IDENTIFIER ::= { mib-2 5 }
tcp        OBJECT IDENTIFIER ::= { mib-2 6 }
```

```
udp        OBJECT IDENTIFIER ::= { mib-2 7 }
egp        OBJECT IDENTIFIER ::= { mib-2 8 }
-- cmot    OBJECT IDENTIFIER ::= { mib-2 9 }
transmission OBJECT IDENTIFIER ::= { mib-2 10 }
snmp       OBJECT IDENTIFIER ::= { mib-2 11 }


-- object types

-- the System group

sysDescr OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-only
       STATUS  mandatory
      ::= { system 1 }

sysObjectID OBJECT-TYPE
      SYNTAX  OBJECT IDENTIFIER
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 2 }

sysUpTime OBJECT-TYPE
      SYNTAX  TimeTicks
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 3 }

sysContact OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      ::= { system 4 }

sysName OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-write
      STATUS  mandatory
      ::= { system 5 }

sysLocation OBJECT-TYPE
      SYNTAX  DisplayString (SIZE (0..255))
      ACCESS  read-only
      STATUS  mandatory
      ::= { system 6 }

sysServices OBJECT-TYPE
```

```
        SYNTAX  INTEGER (0..127)
        ACCESS  read-only
        STATUS  mandatory
        ::= { system 7 }


-- the Interfaces group

ifNumber OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS
    mandatory
        ::= { interfaces 1 }

-- the Interfaces table

ifTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF IfEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { interfaces 2 }

ifEntry OBJECT-TYPE
        SYNTAX  IfEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifTable 1 }

IfEntry ::= SEQUENCE {
    ifIndex
        INTEGER,
    ifDescr
        DisplayString,
    ifType
        INTEGER,
    ifMtu
        INTEGER,
    ifSpeed
        Gauge,
    ifPhysAddress
        OCTET STRING,
    ifAdminStatus
        INTEGER,
    ifOperStatus
        INTEGER,
    ifLastChange
        TimeTicks,
```

```
  ifInOctets
     Counter,
  ifInUcastPkts
     Counter,
  ifInNUcastPkts
     Counter,
  ifInDiscards
     Counter,
  ifInErrors
     Counter,
  ifInUnknownProtos
     Counter,
  ifOutOctets
     Counter,
  ifOutUcastPkts
     Counter,
  ifOutNUcastPkts
     Counter,
  ifOutDiscards
     Counter,
  ifOutErrors
      Counter,
  ifOutQLen
     Gauge,
  ifSpecific
     OBJECT IDENTIFIER
}

ifIndex OBJECT-TYPE
     SYNTAX  INTEGER
     ACCESS  read-only
     STATUS  mandatory
     ::= { ifEntry 1 }

ifDescr OBJECT-TYPE
     SYNTAX  DisplayString (SIZE (0..255))
     ACCESS  read-only
     STATUS  mandatory
     ::= { ifEntry 2 }

ifType OBJECT-TYPE
     SYNTAX  INTEGER {
               other(1),           -- none of the
                                   -- following
               regular1822(2),
               hdh1822(3),
               ddn-x25(4),
               rfc877-x25(5),
```

```
                ethernet-csmacd(6),
                iso88023-csmacd(7),
                iso88024-tokenBus(8),
                iso88025-tokenRing(9),
                iso88026-man(10),
                starLan(11),
                proteon-10Mbit(12),
                proteon-80Mbit(13),
                hyperchannel(14),
                 fddi(15),
                lapb(16),
                sdlc(17),
                t1-carrier(18),
                cept(19),       -- european
                              --equivalent of T-1
                basicISDN(20),
                primaryISDN(21),
                                -- proprietary
                                -- serial
                propPointToPointSerial(22),
                terminalServer-asyncPort(23),
                softwareLoopback(24),
                eon(25),             -- CLNP over IP
                ethernet-3Mbit(26),
                nsip(27),            -- XNS over IP
                slip(28)             -- generic SLIP
            }
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 3 }

    ifMtu OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 4 }

    ifSpeed
     OBJECT-TYPE
        SYNTAX  Gauge
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 5 }

    ifPhysAddress OBJECT-TYPE
        SYNTAX  OCTET STRING
        ACCESS  read-only
        STATUS  mandatory
```

```
    ::= { ifEntry 6 }

ifAdminStatus OBJECT-TYPE
    SYNTAX  INTEGER {
            up(1),     -- ready to pass packets
            down(2),
            testing(3) -- in some test mode
          }
    ACCESS  read-write
    STATUS  mandatory
    ::= { ifEntry 7 }

ifOperStatus OBJECT-TYPE
    SYNTAX  INTEGER {
            up(1),     -- ready to pass packets
            down(2),
            testing(3) -- in some test mode
          }
    ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 8 }

ifLastChange OBJECT-TYPE
    SYNTAX  TimeTicks
    ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 9 }

ifInOctets OBJECT-TYPE
    SYNTAX  Counter
     ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 10 }

ifInUcastPkts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { ifEntry 11 }

ifInNUcastPkts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { ifEntry 12 }

ifInDiscards OBJECT-TYPE
    SYNTAX  Counter
```

```
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 13 }

    ifInErrors OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 14 }

    ifInUnknownProtos OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 15 }

    ifOutOctets OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 16 }

    ifOutUcastPkts OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 17 }

    ifOutNUcastPkts
     OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 18 }

    ifOutDiscards OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 19 }

    ifOutErrors OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 20 }

    ifOutQLen OBJECT-TYPE
```

```
        SYNTAX  Gauge
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 21 }

ifSpecific OBJECT-TYPE
        SYNTAX  OBJECT IDENTIFIER
        ACCESS  read-only
        STATUS  mandatory
        ::= { ifEntry 22 }

nullSpecific OBJECT IDENTIFIER ::= { 0 0 }

-- the Address Translation group (deprecated)

atTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF AtEntry
        ACCESS  read-write
        STATUS  deprecated
        ::= { at 1 }

atEntry OBJECT-TYPE
        SYNTAX  AtEntry
        ACCESS  read-write
        STATUS  deprecated
        ::= { atTable 1 }

AtEntry ::=
 SEQUENCE {
   atIfIndex
        INTEGER,
   atPhysAddress
        OCTET STRING,
   atNetAddress
        NetworkAddress
}

atIfIndex OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-write
        STATUS  deprecated
        ::= { atEntry 1 }

atPhysAddress OBJECT-TYPE
        SYNTAX  OCTET STRING
        ACCESS  read-write
        STATUS  deprecated
        ::= { atEntry 2 }
```

```
atNetAddress OBJECT-TYPE
      SYNTAX  NetworkAddress
      ACCESS  read-write
      STATUS  deprecated
      ::= { atEntry 3 }


-- the IP group

ipForwarding OBJECT-TYPE
      SYNTAX  INTEGER {
                gateway(1), -- entity forwards
                        -- datagrams
                host(2)     -- entity does NOT
                        -- forward datagrams
              }
      ACCESS  read-write
      STATUS  mandatory
      ::= { ip 1 }

ipDefaultTTL OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::=
 { ip 2 }

ipInReceives OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ip 3 }

ipInHdrErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ip 4 }

ipInAddrErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { ip 5 }

ipForwDatagrams OBJECT-TYPE
      SYNTAX  Counter
```

```
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 6 }

ipInUnknownProtos OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 7 }

ipInDiscards OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 8 }

ipInDelivers OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 9 }

ipOutRequests OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= {
 ip 10 }

ipOutDiscards OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 11 }

ipOutNoRoutes OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 12 }

ipReasmTimeout OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 13 }

ipReasmReqds OBJECT-TYPE
```

```
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 14 }

ipReasmOKs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 15 }

ipReasmFails OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 16 }

ipFragOKs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 17 }

ipFragFails OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 18 }

ipFragCreates
 OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 19 }

-- the IP Interface table

ipAddrTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF IpAddrEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { ip 20 }

ipAddrEntry OBJECT-TYPE
        SYNTAX  IpAddrEntry
        ACCESS  read-only
        STATUS  mandatory
```

```
        ::= { ipAddrTable 1 }

IpAddrEntry ::= SEQUENCE {
  ipAdEntAddr
      IpAddress,
  ipAdEntIfIndex
      INTEGER,
  ipAdEntNetMask
      IpAddress,
  ipAdEntBcastAddr
      INTEGER,
  ipAdEntReasmMaxSize
      INTEGER (0..65535)
}

ipAdEntAddr OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-only
      STATUS  mandatory
      ::=  { ipAddrEntry 1 }

ipAdEntIfIndex OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::=  { ipAddrEntry 2 }

ipAdEntNetMask OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-only
       STATUS  mandatory
      ::=  { ipAddrEntry 3 }

ipAdEntBcastAddr OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { ipAddrEntry 4 }

ipAdEntReasmMaxSize OBJECT-TYPE
      SYNTAX  INTEGER (0..65535)
      ACCESS  read-only
      STATUS  mandatory
      ::= { ipAddrEntry 5 }

-- the IP Routing table

ipRoutingTable OBJECT-TYPE
```

```
        SYNTAX  SEQUENCE OF IpRouteEntry
        ACCESS  read-write
        STATUS  mandatory
        ::= { ip 21 }

ipRouteEntry OBJECT-TYPE
        SYNTAX  IpRouteEntry
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRoutingTable 1 }

IpRouteEntry ::= SEQUENCE {
  ipRouteDest
      IpAddress,
  ipRouteIfIndex
      INTEGER,
  ipRouteMetric1
      INTEGER,
  ipRouteMetric2
      INTEGER,
  ipRouteMetric3
      INTEGER,
  ipRouteMetric4
      INTEGER,
  ipRouteNextHop
      IpAddress,
  ipRouteType
      INTEGER,
  ipRouteProto
      INTEGER,
   ipRouteAge
      INTEGER,
  ipRouteMask
      IpAddress
}

ipRouteDest OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRouteEntry 1 }

ipRouteIfIndex  OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipRouteEntry 2 }
```

```
ipRouteMetric1 OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 3 }

ipRouteMetric2 OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 4 }

ipRouteMetric3 OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 5 }

ipRouteMetric4 OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 6 }

ipRouteNextHop OBJECT-TYPE
    SYNTAX  IpAddress
    ACCESS  read-write
    STATUS  mandatory

  ::= { ipRouteEntry 7 }

ipRouteType OBJECT-TYPE
    SYNTAX  INTEGER {
            other(1),    -- none of the following

            invalid(2),  -- an invalidated route

                    -- route to directly
            direct(3),   -- connected
                    -- (sub-)network

                    -- route to a non-local
            remote(4)    -- host/network/
                    -- sub-network
        }
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 8 }
```

```
ipRouteProto OBJECT-TYPE
    SYNTAX  INTEGER {
            other(1),    -- none of the following

                         -- non-protocol
                         -- information

                         --   e.g., manually
            local(2),    --   configured entries

                         -- set via a network
            netmgmt(3),
 --   management protocol

                         -- obtained via ICMP,
            icmp(4),     --   e.g., Redirect

                         -- the following are
                         -- gateway routing
                         -- protocols
            egp(5),
            ggp(6),
            hello(7),
            rip(8),
            is-is(9),
            es-is(10),
            ciscoIgrp(11),
            bbnSpfIgp(12),
            ospf(13),
            bgp(14)
        }
    ACCESS  read-only
    STATUS  mandatory
    ::= { ipRouteEntry 9 }

ipRouteAge OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 10 }

ipRouteMask OBJECT-TYPE
    SYNTAX  IpAddress
    ACCESS  read-write
    STATUS  mandatory
    ::= { ipRouteEntry 11 }
```

```
-- the IP Address Translation tables

ipNetToMediaTable
 OBJECT-TYPE
      SYNTAX  SEQUENCE OF IpNetToMediaEntry
      ACCESS  read-write
      STATUS  mandatory
      ::= { ip 22 }

ipNetToMediaEntry OBJECT-TYPE
      SYNTAX  IpNetToMediaEntry
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipNetToMediaTable 1 }

IpNetToMediaEntry ::= SEQUENCE {
  ipNetToMediaIfIndex
      INTEGER,
  ipNetToMediaPhysAddress
      OCTET STRING,
  ipNetToMediaNetAddress
      IpAddress,
  ipNetToMediaType
      INTEGER
}

ipNetToMediaIfIndex OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipNetToMediaEntry 1 }

ipNetToMediaPhysAddress OBJECT-TYPE
      SYNTAX  OCTET STRING
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipNetToMediaEntry 2 }

ipNetToMediaNetAddress OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-write
      STATUS  mandatory
      ::= { ipNetToMediaEntry 3 }

ipNetToMediaType OBJECT-TYPE

    SYNTAX  INTEGER {
              other(1),   -- none of the following
```

```
                invalid(2), -- an invalidated mapping
                dynamic(3), -- connected (sub-)network

                static(4)
            }
        ACCESS  read-write
        STATUS  mandatory
        ::= { ipNetToMediaEntry 4 }

-- the ICMP group

icmpInMsgs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 1 }

icmpInErrors OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 2 }

icmpInDestUnreachs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 3 }

icmpInTimeExcds OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 4 }

icmpInParmProbs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 5 }

icmpInSrcQuenchs
 OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 6 }
```

```
icmpInRedirects OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 7 }

icmpInEchos OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 8 }

icmpInEchoReps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 9 }

icmpInTimestamps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 10 }

icmpInTimestampReps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 11 }

icmpInAddrMasks OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { icmp 12 }

icmpInAddrMaskReps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory

  ::= { icmp 13 }

icmpOutMsgs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
```

::= { icmp 14 }

icmpOutErrors OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 15 }

icmpOutDestUnreachs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 16 }

icmpOutTimeExcds OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 17 }

icmpOutParmProbs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 18 }

icmpOutSrcQuenchs OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 19 }

icmpOutRedirects OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 20 }

icmpOutEchos OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory
::= { icmp 21 }

icmpOutEchoReps OBJECT-TYPE
SYNTAX Counter
ACCESS read-only
STATUS mandatory

```
        ::= { icmp 22 }

icmpOutTimestamps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 23 }

icmpOutTimestampReps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 24 }

icmpOutAddrMasks OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 25 }

icmpOutAddrMaskReps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { icmp 26 }


-- the TCP group

tcpRtoAlgorithm OBJECT-TYPE
        SYNTAX  INTEGER {
                    other(1),    -- none of the following
                    constant(2), -- a constant rto
                    rsre(3),     -- MIL-STD-1778,
                                 -- Appendix B

        vanj(4)      -- Van Jacobson's
                     -- algorithm
              }
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 1 }

tcpRtoMin OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 2 }
```

```
tcpRtoMax OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 3 }

tcpMaxConn OBJECT-TYPE
    SYNTAX  INTEGER
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 4 }

tcpActiveOpens OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 5 }

tcpPassiveOpens OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 6 }

tcpAttemptFails OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 7 }

tcpEstabResets OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only

   STATUS  mandatory
    ::= { tcp 8 }

tcpCurrEstab OBJECT-TYPE
    SYNTAX  Gauge
    ACCESS  read-only
    STATUS  mandatory
    ::= { tcp 9 }

tcpInSegs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
```

```
        ::= { tcp 10 }

tcpOutSegs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 11 }

tcpRetransSegs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 12 }

-- the TCP connections table

tcpConnTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF TcpConnEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 13 }

tcpConnEntry OBJECT-TYPE
        SYNTAX  TcpConnEntry
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnTable 1 }

TcpConnEntry ::= SEQUENCE {
    tcpConnState
        INTEGER,
    tcpConnLocalAddress
        IpAddress,
    tcpConnLocalPort
        INTEGER (0..65535),
     tcpConnRemAddress
        IpAddress,
    tcpConnRemPort
        INTEGER (0..65535)
}

tcpConnState OBJECT-TYPE
        SYNTAX  INTEGER {
                    closed(1),
                    listen(2),
                    synSent(3),
                    synReceived(4),
                    established(5),
```

```
                finWait1(6),
                finWait2(7),
                closeWait(8),
                lastAck(9),
                closing(10),
                timeWait(11)
            }
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnEntry 1 }

tcpConnLocalAddress OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnEntry 2 }

tcpConnLocalPort OBJECT-TYPE
        SYNTAX  INTEGER (0..65535)
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnEntry 3 }

tcpConnRemAddress OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-only
        STATUS  mandatory
         ::= { tcpConnEntry 4 }

tcpConnRemPort OBJECT-TYPE
        SYNTAX  INTEGER (0..65535)
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcpConnEntry 5 }

-- additional TCP variables

tcpInErrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 14 }

tcpOutRsts OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { tcp 15 }
```

```
-- the UDP group

udpInDatagrams OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 1 }

udpNoPorts OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 2 }

udpInErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 3 }

udpOutDatagrams OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 4 }

-- the UDP listener table

udpTable
 OBJECT-TYPE
      SYNTAX  SEQUENCE OF UdpEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { udp 5 }

udpEntry OBJECT-TYPE
      SYNTAX  UdpEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpTable 1 }

UdpEntry ::= SEQUENCE {
  udpLocalAddress
      IpAddress,
  udpLocalPort
      INTEGER (0..65535)
```

```
}

udpLocalAddress OBJECT-TYPE
      SYNTAX  IpAddress
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpEntry 1 }

udpLocalPort OBJECT-TYPE
      SYNTAX  INTEGER (0..65535)
      ACCESS  read-only
      STATUS  mandatory
      ::= { udpEntry 2 }

-- the EGP group

egpInMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 1 }

egpInErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 2 }

egpOutMsgs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
       ::= { egp 3 }

egpOutErrors OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 4 }

-- the EGP Neighbor table

egpNeighTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF EgpNeighEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 5 }
```

```
egpNeighEntry OBJECT-TYPE
      SYNTAX  EgpNeighEntry
      ACCESS  read-only
      STATUS  mandatory
      ::= { egpNeighTable 1 }

EgpNeighEntry ::= SEQUENCE {
  egpNeighState
     INTEGER,
  egpNeighAddr
     IpAddress,
  egpNeighAs
     INTEGER,
  egpNeighInMsgs
     Counter,
  egpNeighInErrs
     Counter,
  egpNeighOutMsgs
     Counter,
  egpNeighOutErrs
     Counter,
  egpNeighInErrMsgs
     Counter,
  egpNeighOutErrMsgs
     Counter,
  egpNeighStateUps
     Counter,
  egpNeighStateDowns
     Counter,
  egpNeighIntervalHello
     INTEGER,
  egpNeighIntervalPoll
     INTEGER,
  egpNeighMode
      INTEGER,
  egpNeighEventTrigger
     INTEGER
}

egpNeighState OBJECT-TYPE
      SYNTAX  INTEGER {
                idle(1),
                acquisition(2),
                down(3),
                up(4),
                cease(5)
              }
      ACCESS  read-only
```

```
        STATUS  mandatory
        ::= { egpNeighEntry 1 }

egpNeighAddr OBJECT-TYPE
        SYNTAX  IpAddress
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 2 }

egpNeighAs OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 3 }

egpNeighInMsgs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 4 }

egpNeighInErrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 5 }

egpNeighOutMsgs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS
      mandatory
        ::= { egpNeighEntry 6 }

egpNeighOutErrs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 7 }

egpNeighInErrMsgs OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 8 }

egpNeighOutErrMsgs OBJECT-TYPE
        SYNTAX  Counter
```

```
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 9 }

egpNeighStateUps OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 10 }

egpNeighStateDowns OBJECT-TYPE
        SYNTAX  Counter
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 11 }

egpNeighIntervalHello OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 12 }

egpNeighIntervalPoll OBJECT-TYPE
        SYNTAX  INTEGER
        ACCESS  read-only
        STATUS  mandatory

      ::= { egpNeighEntry 13 }

egpNeighMode OBJECT-TYPE
        SYNTAX  INTEGER {
                    active(1),
                    passive(2)
                }
        ACCESS  read-only
        STATUS  mandatory
        ::= { egpNeighEntry 14 }

egpNeighEventTrigger OBJECT-TYPE
        SYNTAX  INTEGER {
                    start(1),
                    stop(2)
                }
        ACCESS  read-write
        STATUS  mandatory
        ::= { egpNeighEntry 15 }

-- additional EGP variables
```

```
egpAs OBJECT-TYPE
      SYNTAX  INTEGER
      ACCESS  read-only
      STATUS  mandatory
      ::= { egp 6 }


-- the Transmission group (empty at present)

-- the SNMP group

snmpInPkts OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 1 }

snmpOutPkts OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 2 }

snmpInBadVersions OBJECT-TYPE
      SYNTAX  Counter
      ACCESS
 read-only
      STATUS  mandatory
      ::=  { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 6 }
```

```
snmpInBadTypes OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 7 }

snmpInTooBigs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 8 }

snmpInNoSuchNames OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 9 }

snmpInBadValues OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 10 }

snmpInReadOnlys OBJECT-TYPE
     SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 11 }

snmpInGenErrs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 14 }
```

```
snmpInGetRequests OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 15 }

snmpInGetNexts OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 16 }

snmpInSetRequests OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 17 }

snmpInGetResponses OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
     ::=  { snmp 18 }

snmpInTraps OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 21 }

snmpOutBadValues OBJECT-TYPE
    SYNTAX  Counter
    ACCESS  read-only
    STATUS  mandatory
    ::=  { snmp 22 }
```

```
snmpOutReadOnlys OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 23 }

snmpOutGenErrs OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
      SYNTAX  Counter

     ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 28 }

snmpOutTraps OBJECT-TYPE
      SYNTAX  Counter
      ACCESS  read-only
      STATUS  mandatory
      ::=  { snmp 29 }

snmpEnableAuthTraps OBJECT-TYPE
      SYNTAX  INTEGER {
                enabled(1),
                disabled(2)
```

```
            }
        ACCESS  read-write
        STATUS  mandatory
        ::=  { snmp 30 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-MIB
No license file was found, but licenses were detected in source scan.

```
DLSW-MIB DEFINITIONS ::= BEGIN

IMPORTS
        DisplayString, RowStatus,
        RowPointer, TruthValue,
        TEXTUAL-CONVENTION              FROM SNMPv2-TC
        Counter32, Gauge32, TimeTicks,
        OBJECT-TYPE, MODULE-IDENTITY,
        NOTIFICATION-TYPE, mib-2        FROM SNMPv2-SMI
        MODULE-COMPLIANCE, OBJECT-GROUP,
        NOTIFICATION-GROUP              FROM SNMPv2-CONF
        ifIndex                     FROM IF-MIB
        sdlcLSAddress                   FROM SNA-SDLC-MIB;

dlsw MODULE-IDENTITY
  LAST-UPDATED  "9606040900Z"
  ORGANIZATION  "AIW DLSw MIB RIGLET and IETF DLSw MIB Working Group"
  CONTACT-INFO
              "David D. Chen
               IBM Corporation
               800 Park, Highway 54
               Research Triangle Park, NC 27709-9990
               Tel:    1 919 254 6182
               E-mail: dchen@vnet.ibm.com"
 DESCRIPTION

    "This MIB module contains objects to manage Data Link
       Switches."
::= { mib-2 46 }

dlswMIB         OBJECT IDENTIFIER ::= { dlsw 1 }
dlswDomains     OBJECT IDENTIFIER ::= { dlsw 2 }

-- ************************************************************
-- Textual convention definitions
-- ************************************************************
```

```
NBName ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
    "Represents a single qualified NetBIOS name, which can include
     `don't care' and `wildcard' characters to represent a number
     of real NetBIOS names.  If an individual character position in
     the qualified name contains a `?', the corresponding character
     position in a real NetBIOS name is a `don't care'.  If the
     qualified name ends in `*', the remainder of a real NetBIOS
     name is a `don't care'. `*' is only considered a wildcard if it
     appears at the end of a name."
  SYNTAX  OCTET STRING (SIZE
(0..16))

MacAddressNC ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "1x:"
  STATUS       current
  DESCRIPTION
    "Represents an 802 MAC address represented in
     non-canonical format.  That is, the most significant
     bit will be transmitted first.  If this information
     is not available, the value is a zero length string."
  SYNTAX       OCTET STRING (SIZE (0 | 6))

TAddress ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "Denotes a transport service address.
     For dlswTCPDomain, a TAddress is 4 octets long,
     containing the IP-address in network-byte order."
  SYNTAX  OCTET STRING (SIZE (0..255))

EndStationLocation ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
    "Representing the location of an end station related
     to the managed DLSw node."
  SYNTAX  INTEGER  {
            other         (1),
            internal      (2),  -- local virtual MAC address
            remote        (3),  -- via
 DLSw partner
            local         (4)   -- locally attached
          }

DlcType ::= TEXTUAL-CONVENTION
  STATUS  current
  DESCRIPTION
```

```
      "Representing the type of DLC of an end station, if
       applicable."
    SYNTAX  INTEGER  {
              other         (1),  -- not assigned yet
              na            (2),  -- not applicable
              llc           (3),  -- 802.2 Logical Link Control
              sdlc          (4),  -- SDLC
              qllc          (5)   -- QLLC
            }

LFSize  ::= TEXTUAL-CONVENTION
    STATUS  current
    DESCRIPTION
      "The largest size of the INFO field (including DLC header,
       not including any MAC-level or framing octets).
       64 valid values as defined by the IEEE 802.1D
       Addendum are acceptable."
    SYNTAX  INTEGER  {
              lfs516(516), lfs635(635), lfs754(754), lfs873(873),
              lfs993(993), lfs1112(1112), lfs1231(1231),
              lfs1350(1350), lfs1470(1470),
 lfs1542(1542),
              lfs1615(1615), lfs1688(1688), lfs1761(1761),
              lfs1833(1833), lfs1906(1906), lfs1979(1979),
              lfs2052(2052), lfs2345(2345), lfs2638(2638),
              lfs2932(2932), lfs3225(3225), lfs3518(3518),
              lfs3812(3812), lfs4105(4105), lfs4399(4399),
              lfs4865(4865), lfs5331(5331), lfs5798(5798),
              lfs6264(6264), lfs6730(6730), lfs7197(7197),
              lfs7663(7663), lfs8130(8130), lfs8539(8539),
              lfs8949(8949), lfs9358(9358), lfs9768(9768),
              lfs10178(10178), lfs10587(10587), lfs10997(10997),
              lfs11407(11407), lfs12199(12199), lfs12992(12992),
              lfs13785(13785), lfs14578(14578), lfs15370(15370),
              lfs16163(16163), lfs16956(16956), lfs17749(17749),
              lfs20730(20730), lfs23711(23711), lfs26693(26693),
              lfs29674(29674), lfs32655(32655), lfs38618(38618),
              lfs41600(41600), lfs44591(44591),
 lfs47583(47583),
              lfs50575(50575), lfs53567(53567), lfs56559(56559),
              lfs59551(59551), lfs65535(65535)
            }

null OBJECT IDENTIFIER ::= { 0 0 }


-- ************************************************************
-- DLSw Transport Domain definitions
```

```
-- ****************************************************************

-- DLSw over TCP
dlswTCPDomain  OBJECT IDENTIFIER ::= { dlswDomains 1 }
-- for an IP address of length 4:
--
-- octets   contents       encoding
--  1-4     IP-address      network-byte order
--
DlswTCPAddress ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "1d.1d.1d.1d"
  STATUS       current
  DESCRIPTION
        "Represents the IP address of a DLSw which uses
         TCP as a transport protocol."
  SYNTAX       OCTET STRING (SIZE (4))


-- ****************************************************************
-- DLSw MIB Definition
-- ****************************************************************

-- The
 DLSw MIB module contains an object part and a conformance part.
-- Object part is organized in the following groups:
-- (1) dlswNode      -  information about this DLSw
-- (2) dlswTConn     -  about adjacent DLSw partners
-- (3) dlswInterface -  about which interfaces DLSw is active on
-- (4) dlswDirectory -  about any directory of local/remote resources
-- (5) dlswCircuit   -  about established circuits.
-- (6) dlswSdlc      -  about SDLC data link switched devices

dlswNode        OBJECT IDENTIFIER ::= { dlswMIB 1 }
dlswTConn       OBJECT IDENTIFIER ::= { dlswMIB 2 }
dlswInterface   OBJECT IDENTIFIER ::= { dlswMIB 3 }
dlswDirectory   OBJECT IDENTIFIER ::= { dlswMIB 4 }
dlswCircuit     OBJECT IDENTIFIER ::= { dlswMIB 5 }
dlswSdlc        OBJECT IDENTIFIER ::= { dlswMIB 6 }  -- SDLC

-- ****************************************************************
-- THE NODE GROUP
-- ****************************************************************

-- ----------------------------------------------------------------
--
 DLSw Node Identity
-- ----------------------------------------------------------------
dlswNodeVersion  OBJECT-TYPE
```

```
  SYNTAX     OCTET STRING (SIZE (2))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This value identifies the particular version of the DLSw
     standard supported by this DLSw.  The first octet is a
     hexadecimal value representing the DLSw standard Version
     number of this DLSw, and the second is a hexadecimal value
     representing the DLSw standard Release number. This
     information is reported in DLSw Capabilities Exchange."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswNode 1 }

dlswNodeVendorID  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (3))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The value identifies the manufacturer's IEEE-assigned
     organizationally Unique Identifier (OUI) of this DLSw.
     This information
 is reported in DLSw Capabilities
     Exchange."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswNode 2 }

dlswNodeVersionString  OBJECT-TYPE
  SYNTAX     DisplayString
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This string gives product-specific information about
     this DLSw (e.g., product name, code release and fix level).
     This flows in Capabilities Exchange messages."
  REFERENCE
    "DLSW: Switch-to-Switch Protocol RFC 1795"
  ::= { dlswNode 3 }

-- ----------------------------------------------------------------
-- DLSw Code Capability
-- ----------------------------------------------------------------
dlswNodeStdPacingSupport  OBJECT-TYPE
  SYNTAX     INTEGER  {
    none             (1),  -- does not support DLSw
                           -- Standard pacing scheme
    adaptiveRcvWindow (2),  -- the receive window size
```

```
                    -- varies
    fixedRcvWindow
   (3)   -- the receive window size
                    -- remains constant
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Circuit pacing, as defined in the DLSw Standard, allows each
     of the two DLSw nodes on a circuit to control the amount
     of data the other is permitted to send to them.  This object
     reflects the level of support the DLSw node has for this
     protocol.  (1) means the node has no support for the standard
     circuit pacing flows;  it may use RFC 1434+ methods only, or
     a proprietary flow control scheme.  (2) means the node supports
     the standard scheme and can vary the window sizes it grants as
     a data receiver.  (3) means the node supports the standard
     scheme but never varies its receive window size."
  ::= { dlswNode 4 }

-- ---------------------------------------------------------------
-- DLSw Node Operational Objects
-- ---------------------------------------------------------------
dlswNodeStatus
 OBJECT-TYPE
  SYNTAX     INTEGER  {
     active       (1),
     inactive     (2)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "The status of the DLSw part of the system.  Changing the
     value from active to inactive causes DLSw to take
     the following actions - (1) it disconnects all circuits
     through all DLSw partners, (2) it disconnects all
     transport connections to all DLSw partners, (3) it
     disconnects all local DLC connections, and (4) it stops
     processing all DLC connection set-up traffic.
     Since these are destructive actions, the user should
     query the circuit and transport connection tables in
     advance to understand the effect this action will have.
     Changing the value from inactive to active causes DLSw
     to come up in its initial state, i.e., transport
     connections established and ready to bring up circuits."
   ::= { dlswNode 5 }

dlswNodeUpTime  OBJECT-TYPE
```

```
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The amount of time (in hundredths of a second) since
      the DLSw portion of the system was last re-initialized.
      That is, if dlswState is in the active state,
      the time the dlswState entered the active state.
      It will remain zero if dlswState is in the
      inactive state."
  ::= { dlswNode 6 }

dlswNodeVirtualSegmentLFSize  OBJECT-TYPE
  SYNTAX     LFSize
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "The largest frame size (including DLC header and info field
      but not any MAC-level or framing octets) this DLSw can forward
      on any path through itself.  This object can represent any box-
      level frame size forwarding restriction (e.g., from the use
      of fixed-size buffers).  Some DLSw implementations will have
       no such restriction.

      This value will affect the LF size of circuits during circuit
      creation.  The LF size of an existing circuit can be found in
      the RIF (Routing Information Field)."
  DEFVAL  { lfs65535 }
  ::= { dlswNode 7 }

-- ..........................................................................
-- NETBIOS Resources
-- ..........................................................................

dlswNodeResourceNBExclusivity  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "The value of true indicates that the NetBIOS Names
      configured in dlswDirNBTable are the only ones accessible
      via this DLSw.

      If a node supports sending run-time capabilities exchange
      messages, changes to this object should cause that action.
      It is up to the implementation exactly when to start the
      run-time capabilities exchange."
```

```
  ::= { dlswNode 8 }

-- ....................................................................
--
 MAC Address List
-- ....................................................................

dlswNodeResourceMacExclusivity  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "The value of true indicates that the MAC addresses
     configured in the dlswDirMacTable are the only ones
     accessible via this DLSw.

     If a node supports sending run-time capabilities exchange
     messages, changes to this object should cause that action.
     It is up to the implementation exactly when to start the
     run-time capabilities exchange."
  ::= { dlswNode 9 }


-- ********************************************************************
-- TRANSPORT CONNECTION (aka: PARTNER DLSW)
-- ********************************************************************

-- --------------------------------------------------------------

-- Transport Connection Statistics Objects
-- --------------------------------------------------------------
dlswTConnStat
   OBJECT IDENTIFIER ::= { dlswTConn 1 }

dlswTConnStatActiveConnections  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of transport connections that are not in
     `disconnected' state."
  ::= { dlswTConnStat 1 }

dlswTConnStatCloseIdles  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

```
      "The number of times transport connections in this node
       exited the connected state with zero active circuits on
       the transport connection."
    ::= { dlswTConnStat 2 }

dlswTConnStatCloseBusys  OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The number of times transport connections in this node
       exited the connected state with some non-zero number
       of active circuits on the transport connection.  Normally
        this means the transport connection failed unexpectedly."
    ::= { dlswTConnStat 3 }

-- ----------------------------------------------------------------
-- Transport Connection Configuration Table
-- ----------------------------------------------------------------
dlswTConnConfigTable  OBJECT-TYPE
    SYNTAX     SEQUENCE OF DlswTConnConfigEntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
      "This table defines the transport connections
       that will be initiated or accepted by this
       DLSw.  Structure of masks allows wildcard
       definition for a collection of transport
       connections by a conceptual row.  For a
       specific transport connection, there may
       be multiple of conceptual rows match the
       transport address.  The `best' match will
       the one to determine the characteristics
       of the transport connection."
    ::= { dlswTConn 2 }

dlswTConnConfigEntry  OBJECT-TYPE
    SYNTAX     DlswTConnConfigEntry
     MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
      "Each conceptual row defines a collection of
       transport connections."
    INDEX   { dlswTConnConfigIndex }
    ::= { dlswTConnConfigTable 1 }

DlswTConnConfigEntry ::= SEQUENCE {
    dlswTConnConfigIndex              INTEGER,
```

```
  dlswTConnConfigTDomain          OBJECT IDENTIFIER,
  dlswTConnConfigLocalTAddr       TAddress,
  dlswTConnConfigRemoteTAddr      TAddress,
  dlswTConnConfigLastModifyTime   TimeTicks,
  dlswTConnConfigEntryType        INTEGER,
  dlswTConnConfigGroupDefinition  RowPointer,
  dlswTConnConfigSetupType        INTEGER,
  dlswTConnConfigSapList          OCTET STRING,
  dlswTConnConfigAdvertiseMacNB   TruthValue,
  dlswTConnConfigInitCirRecvWndw  INTEGER,
  dlswTConnConfigOpens            Counter32,
  dlswTConnConfigRowStatus        RowStatus
  }

dlswTConnConfigIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS
 not-accessible
  STATUS     current
  DESCRIPTION
    "The index to the conceptual row of the table.
     Negative numbers are not allowed.  There
     are objects defined that point to conceptual
     rows of this table with this index value.
     Zero is used to denote that no corresponding
     row exists.

     Index values are assigned by the agent, and
     should not be reused but should continue to
     increase in value."
  ::= { dlswTConnConfigEntry 1 }

dlswTConnConfigTDomain  OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The object identifier which indicates the transport
     domain of this conceptual row."
  ::= { dlswTConnConfigEntry 2 }

dlswTConnConfigLocalTAddr  OBJECT-TYPE
  SYNTAX     TAddress
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The local transport address for this conceptual row
     of the transport connection
```

```
 definition."
  ::= { dlswTConnConfigEntry 3 }

dlswTConnConfigRemoteTAddr  OBJECT-TYPE
  SYNTAX     TAddress
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The remote transport address.  Together with
      dlswTConnConfigEntryType and dlswTConnConfigGroupDefinition,
      the object instance of this conceptual row identifies a
      collection of the transport connections that will be
      either initiated by this DLSw or initiated by a partner
      DLSw and accepted by this DLSw."
  ::= { dlswTConnConfigEntry 4 }

dlswTConnConfigLastModifyTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The time (in hundredths of a second) since the value of
      any object in this conceptual row except for
      dlswTConnConfigOpens was last changed.  This value
      may be compared to dlswTConnOperConnectTime to
      determine whether
 values in this row are completely
      valid for a transport connection created using
      this row definition."
  ::= { dlswTConnConfigEntry 5 }

dlswTConnConfigEntryType  OBJECT-TYPE
  SYNTAX     INTEGER  {
      individual     (1),
      global         (2),
      group          (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The object instance signifies the type of entry in the
      associated conceptual row.  The value of `individual'
      means that the entry applies to a specific partner DLSw
      node as identified by dlswTConnConfigRemoteTAddr and
      dlswTConnConfigTDomain.  The value of `global'
      means that the entry applies to all partner DLSw nodes
      of the TDomain.  The value of 'group' means that the entry
```

applies to a specific set of DLSw nodes in the TDomain.
Any group definitions are enterprise-specific and are pointed
to by dlswTConnConfigGroupDefinition. In the
cases of
`global' and `group', the value in dlswTConnConfigRemoteTAddr
may not have any significance."
::= { dlswTConnConfigEntry 6 }

dlswTConnConfigGroupDefinition OBJECT-TYPE
SYNTAX RowPointer
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"For conceptual rows of `individual' and `global' as
specified in dlswTConnConfigEntryType, the instance
of this object is `0.0'. For conceptual rows of
`group', the instance points to the specific
group definition."
::= { dlswTConnConfigEntry 7 }

dlswTConnConfigSetupType OBJECT-TYPE

SYNTAX INTEGER {
other (1),
activePersistent (2),
activeOnDemand (3),
passive (4),
excluded (5)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This value of the instance of a conceptual row
identifies the behavior of the collection of
transport
connections that this conceptual row
defines. The value of activePersistent, activeOnDemand
and passive means this DLSw will accept any transport
connections, initiated by partner DLSw nodes, which
are defined by this conceptual row. The value of
activePersistent means this DLSw will also initiate
the transport connections of this conceptual row and
retry periodically if necessary. The value of
activeOnDemand means this DLSw will initiate a
transport connection of this conceptual row, if
there is a directory cache hits. The value of
other is implementation specific. The value of exclude
means that the specified node is not allowed to be

```
      a partner to this DLSw node.  To take a certain
      conceptual row definition out of service, a value of
      notInService for dlswTConnConfigRowStatus should be
      used."
  DEFVAL  { passive }
  ::= { dlswTConnConfigEntry 8
 }

dlswTConnConfigSapList  OBJECT-TYPE
  SYNTAX     OCTET STRING  (SIZE(16))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The SAP list indicates which SAPs are advertised to
     the transport connection defined by this conceptual
     row.  Only SAPs with even numbers are represented,
     in the form of the most significant bit of the first
     octet representing the SAP 0, the next most significant
     bit representing the SAP 2, to the least significant
     bit of the last octet representing the SAP 254.  Data
     link switching is allowed for those SAPs which have
     one in its corresponding bit, not allowed otherwise.
     The whole SAP list has to be changed together.  Changing
     the SAP list affects only new circuit establishments
     and has no effect on established circuits.

     This list can be used to restrict specific partners
     from knowing about all the SAPs used by DLSw on all its

    interfaces (these are represented in dlswIfSapList for
     each interface).  For instance, one may want to run NetBIOS
     with some partners but not others.

     If a node supports sending run-time capabilities exchange
     messages, changes to this object should cause that action.
     When to start the run-time capabilities exchange is
     implementation-specific.
     The DEFVAL below indicates support for SAPs 0, 4, 8, and C."
  DEFVAL  { 'AA000000000000000000000000000000'H }
  ::= { dlswTConnConfigEntry 9 }

dlswTConnConfigAdvertiseMacNB  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The value of true indicates that any defined local MAC
      addresses and NetBIOS names will be advertised to a
```

```
        partner node via initial and (if supported) run-time
        capabilities exchange messages.  The DLSw node should send
        the appropriate exclusivity control vector to accompany
         each list it sends, or to represent that the node is
        explicitly configured to have a null list.

        The value of false indicates that the DLSw node should not
        send a MAC address list or NetBIOS name list, and should
        also not send their corresponding exclusivity control
        vectors."
    DEFVAL  { true }
    ::= { dlswTConnConfigEntry 10 }

dlswTConnConfigInitCirRecvWndw  OBJECT-TYPE
    SYNTAX     INTEGER (0..65535)
    UNITS      "SSP messages"
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The initial circuit receive pacing window size, in the unit
       of SSP messages, to be used for future transport connections
       activated using this table row.  The managed node sends this
       value as its initial receive pacing window in its initial
       capabilities exchange message.  Changing this value does not
       affect the initial circuit receive pacing window size of
       currently active
   transport connections.  If the standard window
       pacing scheme is not supported, the value is zero.

       A larger receive window value may be appropriate for partners
       that are reachable only via physical paths that have longer
       network delays."
    DEFVAL  { 1 }
    ::= { dlswTConnConfigEntry 11 }

dlswTConnConfigOpens  OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "Number of times transport connections entered
       connected state according to the definition of
       this conceptual row."
    ::= { dlswTConnConfigEntry 12 }

dlswTConnConfigRowStatus  OBJECT-TYPE
    SYNTAX     RowStatus
    MAX-ACCESS read-create
```

```
  STATUS     current
  DESCRIPTION
     "This object is used by the manager to create
      or delete the row entry in the dlswTConnConfigTable
      following the RowStatus textual convention.  The value
      of notInService will be used to take a conceptual
      row
 definition out of use."
  ::= { dlswTConnConfigEntry 13 }

-- ---------------------------------------------------------------
-- Transport Connection Operation Table
-- ---------------------------------------------------------------
-- (1) At most one transport connection can be connected between
--     this DLSw and one of its DLSw partners at a given time.
-- (2) Multiple transport types are supported.
-- (3) Since the entries may be reused, dlswTConnOperEntryTime
--     needs to be consulted for the possibility of counter reset.
-- ---------------------------------------------------------------

dlswTConnOperTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "A list of transport connections.   It is optional but
      desirable for the agent to keep an entry for some
      period of time after the transport connection is
      disconnected.  This allows the manager to capture
       additional useful information about the connection, in
      particular, statistical information and the cause of the
      disconnection."
  ::= { dlswTConn 3 }

dlswTConnOperEntry  OBJECT-TYPE
  SYNTAX     DlswTConnOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     ""
  INDEX   { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
  ::= { dlswTConnOperTable 1 }

DlswTConnOperEntry ::= SEQUENCE {
  dlswTConnOperTDomain               OBJECT IDENTIFIER,
  dlswTConnOperLocalTAddr             TAddress,
  dlswTConnOperRemoteTAddr            TAddress,
```

```
    dlswTConnOperEntryTime              TimeTicks,
    dlswTConnOperConnectTime            TimeTicks,
    dlswTConnOperState                  INTEGER,
    dlswTConnOperConfigIndex            INTEGER,
    dlswTConnOperFlowCntlMode           INTEGER,

    dlswTConnOperPartnerVersion         OCTET STRING,
    dlswTConnOperPartnerVendorID        OCTET STRING,
    dlswTConnOperPartnerVersionStr
        DisplayString,
    dlswTConnOperPartnerInitPacingWndw  INTEGER,

    dlswTConnOperPartnerSapList         OCTET STRING,
    dlswTConnOperPartnerNBExcl          TruthValue,
    dlswTConnOperPartnerMacExcl         TruthValue,
    dlswTConnOperPartnerNBInfo          INTEGER,
    dlswTConnOperPartnerMacInfo         INTEGER,

    dlswTConnOperDiscTime               TimeTicks,
    dlswTConnOperDiscReason             INTEGER,
    dlswTConnOperDiscActiveCir          INTEGER,

    dlswTConnOperInDataPkts             Counter32,
    dlswTConnOperOutDataPkts            Counter32,
    dlswTConnOperInDataOctets           Counter32,
    dlswTConnOperOutDataOctets          Counter32,

    dlswTConnOperInCntlPkts             Counter32,
    dlswTConnOperOutCntlPkts            Counter32,

    dlswTConnOperCURexSents             Counter32,
    dlswTConnOperICRexRcvds             Counter32,
    dlswTConnOperCURexRcvds             Counter32,
     dlswTConnOperICRexSents            Counter32,

    dlswTConnOperNQexSents              Counter32,
    dlswTConnOperNRexRcvds              Counter32,
    dlswTConnOperNQexRcvds              Counter32,
    dlswTConnOperNRexSents              Counter32,
    dlswTConnOperCirCreates             Counter32,
    dlswTConnOperCircuits               Gauge32
    }

dlswTConnOperTDomain  OBJECT-TYPE
    SYNTAX     OBJECT IDENTIFIER
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
```

```
      "The object identifier indicates the transport domain
       of this transport connection."
   ::= { dlswTConnOperEntry 1 }

dlswTConnOperLocalTAddr  OBJECT-TYPE
   SYNTAX     TAddress
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The local transport address for this transport connection.
       This value could be different from dlswTConnConfigLocalAddr,
       if the value of the latter were changed after this transport
       connection was
 established."
   ::= { dlswTConnOperEntry 2 }

dlswTConnOperRemoteTAddr  OBJECT-TYPE
   SYNTAX     TAddress
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "The remote transport address of this transport connection."
   ::= { dlswTConnOperEntry 3 }

dlswTConnOperEntryTime  OBJECT-TYPE
   SYNTAX     TimeTicks
   UNITS      "hundredths of a second"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The amount of time (in hundredths of a second) since this
       transport connection conceptual row was created."
   ::= { dlswTConnOperEntry 4 }

-- ..........................................................
-- DLSw Transport Connection Operational Objects
-- ..........................................................

dlswTConnOperConnectTime  OBJECT-TYPE
   SYNTAX     TimeTicks
   UNITS      "hundredths of a second"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The amount of time (in hundredths
 of a second) since this
       transport connection last entered the 'connected' state.
       A value of zero means this transport connection has never
```

```
      been established."
  ::= { dlswTConnOperEntry 5 }

dlswTConnOperState  OBJECT-TYPE
  SYNTAX     INTEGER  {
      connecting        (1),
      initCapExchange    (2),
      connected         (3),
      quiescing         (4),
      disconnecting      (5),
      disconnected       (6)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
     "The state of this transport connection.  The transport
      connection enters `connecting' state when DLSw makes
      a connection request to the transport layer.  Once initial
      Capabilities Exchange is sent, the transport connection
      enters enters `initCapExchange' state.  When partner
      capabilities have been determined and the transport
      connection is ready for sending CanUReach (CUR) messages,
      it moves
 to the `connected' state.  When DLSw is in the
      process of bringing down the connection, it is in the
      `disconnecting' state.  When the transport layer
      indicates one of its connections is disconnected, the
      transport connection moves to the `disconnected' state.

      Whereas all of the values will be returned in response
      to a management protocol retrieval operation, only two
      values may be specified in a management protocol set
      operation: `quiescing' and `disconnecting'.  Changing
      the value to `quiescing' prevents new circuits from being
      established, and will cause a transport disconnect when
      the last circuit on the connection goes away.  Changing
      the value to `disconnecting' will force off all circuits
      immediately and bring the connection to `disconnected'
      state."
  ::= { dlswTConnOperEntry 6 }

dlswTConnOperConfigIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS
 read-only
  STATUS     current
  DESCRIPTION
     "The value of dlswTConnConfigIndex of the dlswTConnConfigEntry
```

```
      that governs the configuration information used by this
      dlswTConnOperEntry.  The manager can therefore normally
      examine both configured and operational information
      for this transport connection.

      This value is zero if the corresponding dlswTConnConfigEntry
      was deleted after the creation of this dlswTConnOperEntry.
      If some fields in the former were changed but the conceptual
      row was not deleted, some configuration information may not
      be valid for this operational transport connection.  The
      manager can compare dlswTConnOperConnectTime and
      dlswTConnConfigLastModifyTime to determine if this condition
      exists."
  ::= { dlswTConnOperEntry 7 }

-- ...........................................................
-- Transport Connection Characteristics
-- ...........................................................

dlswTConnOperFlowCntlMode
  OBJECT-TYPE
  SYNTAX     INTEGER  {
    undetermined   (1),
    pacing         (2),   -- DLSw standard flow control
    other          (3)    -- non-DLSw standard flow control
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The flow control mechanism in use on this transport connection.
     This value is undetermined (1) before the mode of flow control
     can be established on a new transport connection (i.e., after
     CapEx is sent but before Capex or other SSP control messages
     have been received).  Pacing (2) indicates that the standard
     RFC 1795 pacing mechanism is in use.  Other (3) may be either
     the RFC 1434+ xBusy mechanism operating to a back-level DLSw,
     or a vendor-specific flow control method.  Whether it is xBusy
     or not can be inferred from dlswTConnOperPartnerVersion."
  ::= { dlswTConnOperEntry 8 }

--
 ...........................................................

dlswTConnOperPartnerVersion  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 2))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

```
      "This value identifies which version (first octet) and release
      (second octet) of the DLSw standard is supported by this
      partner DLSw. This information is obtained from a DLSw
      capabilities exchange message received from the partner DLSw.
      A string of zero length is returned before a Capabilities
      Exchange message is received, or if one is never received.
      A conceptual row with a dlswTConnOperState of `connected' but
      a zero length partner version indicates that the partner is
      a non-standard DLSw partner.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
    REFERENCE
      "DLSW: Switch-to-Switch Protocol RFC 1795"

    ::= { dlswTConnOperEntry 9 }

dlswTConnOperPartnerVendorID  OBJECT-TYPE
    SYNTAX     OCTET STRING (SIZE (0 | 3))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "This value identifies the IEEE-assigned organizationally
      Unique Identifier (OUI) of the maker of this partner
      DLSw.  This information is obtained from a DLSw
      capabilities exchange message received from the partner DLSw.
      A string of zero length is returned before a Capabilities
      Exchange message is received, or if one is never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
    ::= { dlswTConnOperEntry 10 }

dlswTConnOperPartnerVersionStr  OBJECT-TYPE
    SYNTAX     DisplayString (SIZE (0..253))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "This value identifies the particular product version (e.g.,
      product name, code level, fix
 level) of this partner DLSw.
      The format of the actual version string is vendor-specific.
      This information is obtained from a DLSw capabilities exchange
      message received from the partner DLSw.
      A string of zero length is returned before a Capabilities
      Exchange message is received, if one is never received, or
      if one is received but it does not contain a version string.
      If an implementation chooses to keep dlswTConnOperEntrys in
```

```
      the `disconnected' state, this value should remain unchanged."
    REFERENCE
      "DLSW: Switch-to-Switch Protocol RFC 1795"
    ::= { dlswTConnOperEntry 11 }

dlswTConnOperPartnerInitPacingWndw  OBJECT-TYPE
    SYNTAX     INTEGER (0..65535)
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The value of the partner initial receive pacing window.  This
      is our initial send pacing window for all new circuits on this
      transport connection, as modified and granted by
 the first flow
      control indication the partner sends on each circuit.
      This information is obtained from a DLSw capabilities exchange
      message received from the partner DLSw.
      A value of zero is returned before a Capabilities
      Exchange message is received, or if one is never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
    REFERENCE
      "DLSW: Switch-to-Switch Protocol RFC 1795"
    ::= { dlswTConnOperEntry 12 }

-- ..........................................................................

dlswTConnOperPartnerSapList  OBJECT-TYPE
    SYNTAX     OCTET STRING (SIZE (0 | 16))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The Supported SAP List received in the capabilities
      exchange message from the partner DLSw.  This list has
      the same format described for dlswTConnConfigSapList.
      A string of zero length is
 returned before a Capabilities
      Exchange message is received, or if one is never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
    ::= { dlswTConnOperEntry 13 }

dlswTConnOperPartnerNBExcl  OBJECT-TYPE
    SYNTAX     TruthValue
    MAX-ACCESS read-only
    STATUS     current
```

```
  DESCRIPTION
    "The value of true signifies that the NetBIOS names received
     from this partner in the NetBIOS name list in its capabilities
     exchange message are the only NetBIOS names reachable by
     that partner.  `False' indicates that other NetBIOS names may
     be reachable.  `False' should be returned before a Capabilities
     Exchange message is received, if one is never received, or if
     one is received without a NB Name Exclusivity CV.

     If an implementation chooses to keep dlswTConnOperEntrys in
     the `disconnected' state, this value should remain
 unchanged."
  ::= { dlswTConnOperEntry 14 }

dlswTConnOperPartnerMacExcl  OBJECT-TYPE
  SYNTAX     TruthValue
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The value of true signifies that the MAC addresses received
     from this partner in the MAC address list in its capabilities
     exchange message are the only MAC addresses reachable by
     that partner.  `False' indicates that other MAC addresses may
     be reachable.  `False' should be returned before a Capabilities
     Exchange message is received, if one is never received, or if
     one is received without a MAC Address Exclusivity CV.

     If an implementation chooses to keep dlswTConnOperEntrys in
     the `disconnected' state, this value should remain unchanged."
  ::= { dlswTConnOperEntry 15 }

dlswTConnOperPartnerNBInfo  OBJECT-TYPE
  SYNTAX     INTEGER  {
    none          (1),  -- none is kept
    partial       (2),  -- partial list is kept

    complete      (3),  -- complete list is kept
    notApplicable  (4)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "It is up to this DSLw whether to keep either none, some,
     or all of the NetBIOS name list that was received in
     the capabilities exchange message sent by this partner DLSw.
     This object identifies how much information was kept by
     this DLSw.  These names are stored as userConfigured
     remote entries in dlswDirNBTable.
```

```
      A value of (4), notApplicable, should be returned before
      a Capabilities Exchange message is received, or if one is
      never received.
      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
   ::= { dlswTConnOperEntry 16 }

dlswTConnOperPartnerMacInfo  OBJECT-TYPE
   SYNTAX     INTEGER  {
     none          (1),  -- none is kept
     partial       (2),  -- partial list is kept
      complete       (3),  -- complete list is kept
     notApplicable  (4)
   }
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
     "It is up to this DLSw whether to keep either none, some,
      or all of the MAC address list that was received in the
      capabilities exchange message sent by this partner DLSw.
      This object identifies how much information was kept by
      this DLSw.  These names are stored as userConfigured
      remote entries in dlswDirMACTable.
      A value of (4), notApplicable, should be returned before
      a Capabilities Exchange message is received, or if one is
      never received.

      If an implementation chooses to keep dlswTConnOperEntrys in
      the `disconnected' state, this value should remain unchanged."
   ::= { dlswTConnOperEntry 17 }

-- ..........................................................................
-- Information about the last disconnect of this transport connection.
--   These objects
 make sense only for implementations that keep
--   transport connection information around after disconnection.
-- ..........................................................................
dlswTConnOperDiscTime  OBJECT-TYPE
   SYNTAX     TimeTicks
   UNITS      "hundredths of a second"
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
     "The amount of time (in hundredths of a second) since the
      dlswTConnOperState last entered `disconnected' state."
   ::= { dlswTConnOperEntry 18 }

dlswTConnOperDiscReason  OBJECT-TYPE
```

```
  SYNTAX     INTEGER  {
      other             (1),
      capExFailed       (2),
      transportLayerDisc (3),
      operatorCommand    (4),
      lastCircuitDiscd   (5),
      protocolError      (6)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "This object signifies the reason that either prevented the
      transport connection from entering the connected state, or
      caused the transport
 connection to enter the disconnected
      state."
  ::= { dlswTConnOperEntry 19 }

dlswTConnOperDiscActiveCir  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of circuits active (not in DISCONNECTED state)
      at the time the transport connection was last disconnected.
      This value is zero if the transport connection has never
      been connected."
  ::= { dlswTConnOperEntry 20 }

-- ..........................................................
-- Transport Connection Statistics
-- (1) Traffic counts
-- ..........................................................
dlswTConnOperInDataPkts  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "SSP messages"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of Switch-to-Switch Protocol (SSP) messages of
      type DGRMFRAME, DATAFRAME, or INFOFRAME received on this
      transport connection."
   ::= { dlswTConnOperEntry 21 }

dlswTConnOperOutDataPkts  OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "SSP messages"
  MAX-ACCESS read-only
```

```
    STATUS     current
    DESCRIPTION
      "The number of Switch-to-Switch Protocol (SSP) messages of
       type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this
       transport connection."
    ::= { dlswTConnOperEntry 22 }

dlswTConnOperInDataOctets  OBJECT-TYPE
    SYNTAX     Counter32
    UNITS      "octets"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The number octets in Switch-to-Switch Protocol (SSP) messages
       of type DGRMFRAME, DATAFRAME, or INFOFRAME received on this
       transport connection.  Each message is counted starting with
       the first octet following the SSP message header."
    ::= { dlswTConnOperEntry 23 }

dlswTConnOperOutDataOctets  OBJECT-TYPE
    SYNTAX     Counter32
    UNITS      "octets"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
       "The number octets in Switch-to-Switch Protocol (SSP) messages
       of type DGRMFRAME, DATAFRAME, or INFOFRAME transmitted on this
       transport connection.  Each message is counted starting with
       the first octet following the SSP message header."
    ::= { dlswTConnOperEntry 24 }

dlswTConnOperInCntlPkts  OBJECT-TYPE
    SYNTAX     Counter32
    UNITS      "SSP messages"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The number of Switch-to-Switch Protocol (SSP) messages
       received on this transport connection which were not of
       type DGRMFRAME, DATAFRAME, or INFOFRAME."
    ::= { dlswTConnOperEntry 25 }

dlswTConnOperOutCntlPkts  OBJECT-TYPE
    SYNTAX     Counter32
    UNITS      "SSP messages"
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
```

```
      "The number of Switch-to-Switch Protocol (SSP) messages of
       transmitted on this transport connection which were not of
       type DGRMFRAME, DATAFRAME,
 or INFOFRAME."
  ::= { dlswTConnOperEntry 26 }

-- ..........................................................
-- (2) Directory activities (Explorer messages)
-- ..........................................................

dlswTConnOperCURexSents  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of CanUReach_ex messages sent on this transport
      connection."
  ::= { dlswTConnOperEntry 27 }

dlswTConnOperICRexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of ICanReach_ex messages received on this transport
      connection."
  ::= { dlswTConnOperEntry 28 }

dlswTConnOperCURexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of CanUReach_ex messages received on this transport
      connection."
  ::= { dlswTConnOperEntry 29 }

dlswTConnOperICRexSents
 OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of ICanReach_ex messages sent on this transport
      connection."
  ::= { dlswTConnOperEntry 30 }

-- ..........................................................
```

```
dlswTConnOperNQexSents  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of NetBIOS_NQ_ex (NetBIOS Name Query-explorer)
     messages sent on this transport connection."
  ::= { dlswTConnOperEntry 31 }

dlswTConnOperNRexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of NETBIOS_NR_ex (NetBIOS Name Recognized-explorer)
     messages received on this transport connection."
  ::= { dlswTConnOperEntry 32 }

dlswTConnOperNQexRcvds  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of NETBIOS_NQ_ex messages received on this
     transport connection."
  ::= { dlswTConnOperEntry 33 }

dlswTConnOperNRexSents  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of NETBIOS_NR_ex messages sent on this transport
     connection."
  ::= { dlswTConnOperEntry 34 }

-- ..........................................................................
-- (3) Circuit activities on each transport connection
-- ..........................................................................
dlswTConnOperCirCreates  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times that circuits entered `circuit_established'
     state (not counting transitions from `circuit_restart')."
  ::= { dlswTConnOperEntry 35 }
```

```
dlswTConnOperCircuits  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of currently active circuits on this transport
     connection, where `active' means not in `disconnected' state."
  ::= { dlswTConnOperEntry 36 }


-- ---------------------------------------------------------------
-- Transport Connection Specific
-- ---------------------------------------------------------------
dlswTConnSpecific OBJECT IDENTIFIER ::= { dlswTConn 4 }
dlswTConnTcp      OBJECT IDENTIFIER ::= { dlswTConnSpecific 1 }

-- .....................................................................
-- TCP Transport Connection Specific -  Configuration
-- .....................................................................
dlswTConnTcpConfigTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnTcpConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table defines the TCP transport connections that
     will be either initiated by or accepted by this DSLw.
     It augments the entries in dlswTConnConfigTable
 whose domain
     is dlswTCPDomain."
  ::= { dlswTConnTcp 1 }

dlswTConnTcpConfigEntry  OBJECT-TYPE
  SYNTAX     DlswTConnTcpConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Each conceptual row defines parameters that are
     specific to dlswTCPDomain transport connections."
  INDEX   { dlswTConnConfigIndex }
  ::= { dlswTConnTcpConfigTable 1 }

DlswTConnTcpConfigEntry ::= SEQUENCE {
  dlswTConnTcpConfigKeepAliveInt       INTEGER,
  dlswTConnTcpConfigTcpConnections     INTEGER,
  dlswTConnTcpConfigMaxSegmentSize     INTEGER
  }
```

```
dlswTConnTcpConfigKeepAliveInt  OBJECT-TYPE
  SYNTAX     INTEGER (0..1800)
  UNITS      "seconds"
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
     no traffic is flowing.  Zero signifies no keepAlive protocol.
     Changes take effect only for new TCP connections."
  DEFVAL  { 0 }
  ::= { dlswTConnTcpConfigEntry
 1 }

dlswTConnTcpConfigTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This is our preferred number of TCP connections within a
     TCP transport connection.  The actual number used is negotiated
     at capabilities exchange time. Changes take effect only
     for new transport connections."
  DEFVAL  { 2 }
  ::= { dlswTConnTcpConfigEntry 2 }

dlswTConnTcpConfigMaxSegmentSize  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  UNITS      "packets"
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This is the number of bytes that this node is
     willing to receive over the read TCP connection(s).
     Changes take effect for new transport connections."
  DEFVAL  { 4096 }
  ::= { dlswTConnTcpConfigEntry 3 }



-- ..........................................................................
-- TCP Transport Connection Specific -  Operation
-- ..........................................................................
dlswTConnTcpOperTable
 OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswTConnTcpOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "A list of TCP transport connections.   It is optional
```

```
      but desirable for the agent to keep an entry for some
      period of time after the transport connection is
      disconnected.  This allows the manager to capture
      additional useful information about the connection, in
      particular, statistical information and the cause of the
      disconnection."
  ::= { dlswTConnTcp 2 }

dlswTConnTcpOperEntry  OBJECT-TYPE
  SYNTAX     DlswTConnTcpOperEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
  INDEX   { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr }
  ::= { dlswTConnTcpOperTable 1 }

DlswTConnTcpOperEntry ::= SEQUENCE {
  dlswTConnTcpOperKeepAliveInt            INTEGER,
  dlswTConnTcpOperPrefTcpConnections
     INTEGER,
  dlswTConnTcpOperTcpConnections          INTEGER
  }

dlswTConnTcpOperKeepAliveInt  OBJECT-TYPE
  SYNTAX     INTEGER (0..1800)
  UNITS      "seconds"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The time in seconds between TCP keepAlive messages when
     no traffic is flowing.  Zero signifies no keepAlive protocol is
     operating."
  ::= { dlswTConnTcpOperEntry 1 }

dlswTConnTcpOperPrefTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This is the number of TCP connections preferred by this DLSw
     partner, as received in its capabilities exchange message."
  ::= { dlswTConnTcpOperEntry 2 }


dlswTConnTcpOperTcpConnections  OBJECT-TYPE
  SYNTAX     INTEGER (1..16)
  MAX-ACCESS read-only
```

```
  STATUS     current
  DESCRIPTION
    "This is the actual current number of TCP connections within
     this transport connection."
   ::= { dlswTConnTcpOperEntry 3 }

-- ****************************************************************
-- DLSW INTERFACE GROUP
-- ****************************************************************

dlswIfTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswIfEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The list of interfaces on which DLSw is active."
  ::= { dlswInterface 1 }

dlswIfEntry  OBJECT-TYPE
  SYNTAX     DlswIfEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
  INDEX   { ifIndex }
  ::= { dlswIfTable 1 }

DlswIfEntry ::= SEQUENCE {
  dlswIfRowStatus      RowStatus,
  dlswIfVirtualSegment INTEGER,
  dlswIfSapList        OCTET STRING
  }

dlswIfRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by the manager to create
     or delete the row entry in the dlswIfTable
     following the
 RowStatus textual convention."
  ::= { dlswIfEntry 1 }

dlswIfVirtualSegment  OBJECT-TYPE
  SYNTAX     INTEGER (0..4095 | 65535)
  MAX-ACCESS read-create
  STATUS     current
```

```
  DESCRIPTION
     "The segment number that uniquely identifies the virtual
      segment to which this DLSw interface is connected.
      Current source routing protocols limit this value to
      the range 0 - 4095. (The value 0 is used by some
      management applications for special test cases.)
      A value of 65535 signifies that no virtual segment
      is assigned to this interface.  For instance,
      in a non-source routing environment, segment number
      assignment is not required."
  DEFVAL { 65535 }
  ::= { dlswIfEntry 2 }

dlswIfSapList  OBJECT-TYPE
  SYNTAX     OCTET STRING  (SIZE(16))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The SAP list indicates which SAPs are allowed to be
      data link switched through this interface.
 This list
      has the same format described for dlswTConnConfigSapList.

      When changes to this object take effect is implementation-
      specific.  Turning off a particular SAP can destroy
      active circuits that are using that SAP.  An agent
      implementation may reject such changes until there are no
      active circuits if it so chooses.  In this case, it is up
      to the manager to close the circuits first, using
      dlswCircuitState.

      The DEFVAL below indicates support for SAPs 0, 4, 8, and C."
  DEFVAL  { 'AA000000000000000000000000000000'H }
  ::= { dlswIfEntry 3 }


-- ****************************************************************************
-- DIRECTORY
-- Directory services caches the locations of MAC addresses
-- and NetBIOS names.  For resources which are attached via
-- local interfaces, the ifIndex may be cached, and for
-- resources which are reachable via a DLSw partner, the
-- transport address of the DLSw partner is cached.
--
 ****************************************************************************

-- ----------------------------------------------------------------
-- Directory Related Statistical Objects
```

```
-- ------------------------------------------------------------------
dlswDirStat     OBJECT IDENTIFIER ::= { dlswDirectory 1 }

dlswDirMacEntries  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The current total number of entries in the dlswDirMacTable."
  ::= { dlswDirStat 1 }

dlswDirMacCacheHits  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular MAC address
     resulted in success."
  ::= { dlswDirStat 2 }

dlswDirMacCacheMisses  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular MAC address
     resulted in failure."
   ::= { dlswDirStat 3 }

dlswDirMacCacheNextIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The next value of dlswDirMacIndex to be assigned by
     the agent.  A retrieval of this object atomically reserves
     the returned value for use by the manager to create a row
     in dlswDirMacTable.  This makes it possible for the agent
     to control the index space of the MAC address cache, yet
     allows the manager to administratively create new rows."
  ::= { dlswDirStat 4 }

dlswDirNBEntries  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The current total number of entries in the dlswDirNBTable."
```

```
  ::= { dlswDirStat 5 }

dlswDirNBCacheHits  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular NetBIOS
     name resulted
 in success."
  ::= { dlswDirStat 6 }

dlswDirNBCacheMisses  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of times a cache search for a particular NetBIOS
     name resulted in failure."
  ::= { dlswDirStat 7 }

dlswDirNBCacheNextIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The next value of dlswDirNBIndex to be assigned by the
     agent.  A retrieval of this object atomically reserves
     the returned value for use by the manager to create
     a row in dlswDirNBTable.  This makes it possible for the
     agent to control the index space for the NetBIOS name
     cache, yet allows the manager to administratively
     create new rows."
  ::= { dlswDirStat 8 }

-- ---------------------------------------------------------------------
-- Directory Cache
-- ---------------------------------------------------------------------
dlswDirCache
    OBJECT IDENTIFIER ::= { dlswDirectory 2 }

-- .....................................................................
-- Directory for MAC Addresses.
-- All Possible combinations of values of these objects.
--
--    EntryType   LocationType       Location        Status
--  --------------- ------------ ------------------ --------------
--  userConfigured    local     ifEntry or 0.0     reachable, or
```

```
--                                  notReachable, or
--                                  unknown
-- userConfigured   remote   TConnConfigEntry   reachable, or
--                                  notReachable, or
--                                  unknown
-- partnerCapExMsg  remote   TConnOperEntry    unknown
-- dynamic          local    ifEntry or 0.0    reachable
-- dynamic          remote   TConnOperEntry    reachable
--
-- ..............................................................
dlswDirMacTable
 OBJECT-TYPE
  SYNTAX    SEQUENCE OF DlswDirMacEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "This table contains locations of MAC addresses.
     They could be either verified or not verified,
     local or remote, and configured locally or learned
     from either Capabilities Exchange messages or
     directory searches."
  ::= { dlswDirCache 1 }

dlswDirMacEntry  OBJECT-TYPE
  SYNTAX    DlswDirMacEntry
  MAX-ACCESS not-accessible
  STATUS    current
  DESCRIPTION
    "Indexed by dlswDirMacIndex."
  INDEX   { dlswDirMacIndex }
  ::= { dlswDirMacTable 1 }

DlswDirMacEntry ::= SEQUENCE {
  dlswDirMacIndex         INTEGER,
  dlswDirMacMac           MacAddressNC,
  dlswDirMacMask          MacAddressNC,
  dlswDirMacEntryType     INTEGER,
  dlswDirMacLocationType  INTEGER,
  dlswDirMacLocation      RowPointer,
  dlswDirMacStatus        INTEGER,
  dlswDirMacLFSize
   LFSize,
  dlswDirMacRowStatus     RowStatus
  }

dlswDirMacIndex  OBJECT-TYPE
  SYNTAX    INTEGER (0..2147483647)
  MAX-ACCESS not-accessible
```

```
  STATUS     current
  DESCRIPTION
    "Uniquely identifies a conceptual row of this table."
  ::= { dlswDirMacEntry 1 }

dlswDirMacMac  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address, together with the dlswDirMacMask,
     specifies a set of MAC addresses that are defined or
     discovered through an interface or partner DLSw nodes."
  ::= { dlswDirMacEntry 2 }

dlswDirMacMask  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address mask, together with the dlswDirMacMac,
     specifies a set of MAC addresses that are defined or
     discovered through an interface or partner DLSw nodes."
  DEFVAL { 'FFFFFFFFFFFF'H }
  ::= { dlswDirMacEntry 3 }

dlswDirMacEntryType
  OBJECT-TYPE
  SYNTAX     INTEGER  {
     other                (1),
     userConfiguredPublic     (2),
     userConfiguredPrivate    (3),
     partnerCapExMsg          (4),
     dynamic              (5)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The cause of the creation of this conceptual row.
     It could be one of the three methods: (1) user
     configured, including via management protocol
     set operations, configuration file, command line
     or equivalent methods; (2) learned from the
     partner DLSw Capabilities Exchange messages;
     and (3) dynamic, e.g., learned from ICanReach
     messages, or LAN explorer frames.  Since only
     individual MAC addresses can be dynamically learned,
     dynamic entries will all have a mask of all FFs.
```

```
      The public versus private distinction for user-
      configured resources applies only to local resources
      (UC remote
 resources are private), and indicates
      whether that resource should be advertised in
      capabilities exchange messages sent by this node."
  DEFVAL { userConfiguredPublic }
  ::= { dlswDirMacEntry 4 }

dlswDirMacLocationType  OBJECT-TYPE
  SYNTAX     INTEGER  {
      other              (1),
      local              (2),
      remote              (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The location of the resource (or a collection of
      resources using a mask) of this conceptual row
      is either (1) local - the resource is reachable
      via an interface, or (2) remote - the resource
      is reachable via a partner DLSw node (or a set
      of partner DLSw nodes)."
  DEFVAL { local }
  ::= { dlswDirMacEntry 5 }

dlswDirMacLocation  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "Points to either the ifEntry, dlswTConnConfigEntry,
       dlswTConnOperEntry, 0.0, or something that is implementation
      specific.  It identifies the location of the MAC address
      (or the collection of MAC addresses.)"
  DEFVAL { null }
  ::= { dlswDirMacEntry 6 }

dlswDirMacStatus  OBJECT-TYPE
  SYNTAX     INTEGER  {
      unknown             (1),
      reachable           (2),
      notReachable         (3)
  }
  MAX-ACCESS read-create
  STATUS     current
```

```
  DESCRIPTION
     "This object specifies whether DLSw currently believes
      the MAC address to be accessible at the specified location.
      The value `notReachable' allows a configured resource
      definition to be taken out of service when a search to
      that resource fails (avoiding a repeat of the search)."
  DEFVAL { unknown }
  ::= { dlswDirMacEntry 7 }

dlswDirMacLFSize  OBJECT-TYPE
  SYNTAX     LFSize
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The largest size of the MAC
 INFO field (LLC header and data)
      that a circuit to the MAC address can carry through this path."
  DEFVAL { lfs65535 }
  ::= { dlswDirMacEntry 8 }

dlswDirMacRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "This object is used by the manager to create
      or delete the row entry in the dlswDirMacTable
      following the RowStatus textual convention."
  ::= { dlswDirMacEntry 9 }

-- ..........................................................................
-- Directory for NetBIOS Names
-- All Possible combinations of values of these objects.
--
--    EntryType   LocationType       Location        Status
--  --------------- ------------ ------------------- --------------
-- userConfigured    local     ifEntry or 0.0     reachable, or
--                                    notReachable, or
--                                    unknown
-- userConfigured    remote    TConnConfigEntry
  reachable, or
--                                    notReachable, or
--                                    unknown
-- partnerCapExMsg   remote    TConnOperEntry     unknown
-- dynamic           local     ifEntry or 0.0     reachable
-- dynamic           remote    TConnOperEntry     reachable
--
-- ..........................................................................
```

```
dlswDirNBTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table contains locations of NetBIOS names.
     They could be either verified or not verified,
     local or remote, and configured locally or learned
     from either Capabilities Exchange messages or
     directory searches."
  ::= { dlswDirCache 2 }

dlswDirNBEntry  OBJECT-TYPE
  SYNTAX     DlswDirNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Indexed by dlswDirNBIndex."
  INDEX   {
 dlswDirNBIndex }
  ::= { dlswDirNBTable 1 }

DlswDirNBEntry ::= SEQUENCE {
  dlswDirNBIndex          INTEGER,
  dlswDirNBName           NBName,
  dlswDirNBNameType       INTEGER,
  dlswDirNBEntryType      INTEGER,
  dlswDirNBLocationType   INTEGER,
  dlswDirNBLocation       RowPointer,
  dlswDirNBStatus         INTEGER,
  dlswDirNBLFSize         LFSize,
  dlswDirNBRowStatus      RowStatus
  }

dlswDirNBIndex  OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Uniquely identifies a conceptual row of this table."
  ::= { dlswDirNBEntry 1 }

dlswDirNBName  OBJECT-TYPE
  SYNTAX     NBName
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The NetBIOS name (including `any char' and `wildcard'
```

```
      characters) specifies a set of NetBIOS names that are
      defined or discovered through an interface or partner
      DLSw nodes."
  ::= { dlswDirNBEntry
 2 }

dlswDirNBNameType  OBJECT-TYPE
  SYNTAX     INTEGER  {
      unknown       (1),
      individual    (2),
      group         (3)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "Whether dlswDirNBName represents an (or a set of) individual
      or group NetBIOS name(s)."
  DEFVAL { unknown }
  ::= { dlswDirNBEntry 3 }

dlswDirNBEntryType  OBJECT-TYPE
  SYNTAX     INTEGER  {
      other                 (1),
      userConfiguredPublic     (2),
      userConfiguredPrivate    (3),
      partnerCapExMsg          (4),
      dynamic                  (5)
  }
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The cause of the creation of this conceptual row.
      It could be one of the three methods: (1) user
      configured, including via management protocol
      set operations, configuration file, command line,
      or equivalent methods; (2) learned from the
      partner DLSw Capabilities
 Exchange messages;
      and (3) dynamic, e.g., learned from ICanReach
      messages, or test frames.  Since only actual
      NetBIOS names can be dynamically learned, dynamic
      entries will not contain any char or wildcard
      characters.

      The public versus private distinction for user-
      configured resources applies only to local resources
      (UC remote resources are private), and indicates
      whether that resource should be advertised in
```

```
      capabilities exchange messages sent by this node."
    DEFVAL { userConfiguredPublic }
    ::= { dlswDirNBEntry 4 }

dlswDirNBLocationType  OBJECT-TYPE
    SYNTAX     INTEGER  {
       other              (1),
       local              (2),
       remote              (3)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The location of the resource (or a collection of resources
       using any char/wildcard characters) of this conceptual row
       is either
 (1) local - the resource is reachable via an
       interface, or (2) remote - the resource is reachable via a
       a partner DLSw node (or a set of partner DLSw nodes)."
    DEFVAL { local }
    ::= { dlswDirNBEntry 5 }

dlswDirNBLocation  OBJECT-TYPE
    SYNTAX     RowPointer
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "Points to either the ifEntry, dlswTConnConfigEntry,
       dlswTConnOperEntry, 0.0, or something that is implementation
       specific.  It identifies the location of the NetBIOS name
       or the set of NetBIOS names."
    DEFVAL { null }
    ::= { dlswDirNBEntry 6 }

dlswDirNBStatus  OBJECT-TYPE
    SYNTAX     INTEGER  {
       unknown             (1),
       reachable           (2),
       notReachable         (3)
    }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "This object specifies whether DLSw currently believes
       the NetBIOS name to be accessible at the specified location.
        The value `notReachable' allows a configured resource
       definition to be taken out of service when a search to
       that resource fails (avoiding a repeat of the search)."
```

```
  DEFVAL { unknown }
  ::= { dlswDirNBEntry 7 }

dlswDirNBLFSize  OBJECT-TYPE
  SYNTAX     LFSize
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The largest size of the MAC INFO field (LLC header and data)
     that a circuit to the NB name can carry through this path."
  DEFVAL { lfs65535 }
  ::= { dlswDirNBEntry 8 }

dlswDirNBRowStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by manager to create
     or delete the row entry in the dlswDirNBTable
     following the RowStatus textual convention."
  ::= { dlswDirNBEntry 9 }



-- ---------------------------------------------------------------
-- Resource Locations
-- ---------------------------------------------------------------
dlswDirLocate
      OBJECT IDENTIFIER ::= { dlswDirectory 3 }

-- .....................................................................
-- Locate Entries in the dlswDirMacTable for a given MAC address
-- .....................................................................
dlswDirLocateMacTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirLocateMacEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table is used to retrieve all entries in the
     dlswDirMacTable that match a given MAC address,
     in the order of the best matched first, the
     second best matched second, and so on, till
     no more entries match the given MAC address."
  ::= { dlswDirLocate 1 }

dlswDirLocateMacEntry  OBJECT-TYPE
  SYNTAX     DlswDirLocateMacEntry
  MAX-ACCESS not-accessible
```

```
  STATUS     current
  DESCRIPTION
     "Indexed by dlswDirLocateMacMac and dlswDirLocateMacMatch.
      The first object is the MAC address of interest,
 and
      the second object is the order in the list of all
      entries that match the MAC address."
  INDEX   { dlswDirLocateMacMac, dlswDirLocateMacMatch }
  ::= { dlswDirLocateMacTable 1 }

DlswDirLocateMacEntry ::= SEQUENCE {
  dlswDirLocateMacMac           MacAddressNC,
  dlswDirLocateMacMatch         INTEGER,
  dlswDirLocateMacLocation      RowPointer
  }

dlswDirLocateMacMac  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "The MAC address to be located."
  ::= { dlswDirLocateMacEntry 1 }

dlswDirLocateMacMatch  OBJECT-TYPE
  SYNTAX     INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "The order of the entries of dlswDirMacTable
      that match dlswDirLocateMacMac.  A value of
      one represents the entry that best matches the
      MAC address.  A value of two represents the second
      best matched entry, and so on."

 ::= { dlswDirLocateMacEntry 2 }

dlswDirLocateMacLocation  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "Points to the dlswDirMacEntry."
  ::= { dlswDirLocateMacEntry 3 }

-- ..........................................................................
-- Locate Entries in the dlswDirNBTable for a given NetBIOS name
-- ..........................................................................
```

```
dlswDirLocateNBTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswDirLocateNBEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "This table is used to retrieve all entries in the
     dlswDirNBTable that match a given NetBIOS name,
     in the order of the best matched first, the
     second best matched second, and so on, till
     no more entries match the given NetBIOS name."
  ::= { dlswDirLocate 2 }

dlswDirLocateNBEntry  OBJECT-TYPE
  SYNTAX     DlswDirLocateNBEntry
  MAX-ACCESS not-accessible

  STATUS     current
  DESCRIPTION
    "Indexed by dlswDirLocateNBName and dlswDirLocateNBMatch.
     The first object is the NetBIOS name of interest, and
     the second object is the order in the list of all
     entries that match the NetBIOS name."
  INDEX   { dlswDirLocateNBName, dlswDirLocateNBMatch }
  ::= { dlswDirLocateNBTable 1 }

DlswDirLocateNBEntry ::= SEQUENCE {
  dlswDirLocateNBName          NBName,
  dlswDirLocateNBMatch         INTEGER,
  dlswDirLocateNBLocation       RowPointer
  }

dlswDirLocateNBName  OBJECT-TYPE
  SYNTAX     NBName
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The NetBIOS name to be located (no any char or wildcards)."
  ::= { dlswDirLocateNBEntry 1 }

dlswDirLocateNBMatch  OBJECT-TYPE
  SYNTAX     INTEGER (1..255)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The order of the entries of dlswDirNBTable
     that match dlswDirLocateNBName.  A value of
      one represents the entry that best matches the
     NetBIOS name.  A value of two represents the second
```

```
      best matched entry, and so on."
  ::= { dlswDirLocateNBEntry 2 }

dlswDirLocateNBLocation  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Points to the dlswDirNBEntry."
  ::= { dlswDirLocateNBEntry 3 }


-- ****************************************************************************
-- CIRCUIT
-- A circuit is the end-to-end association of two DLSw entities
-- through one or two DLSw nodes.  It is the concatenation of
-- two "data links", optionally with an intervening transport
-- connection. The origin of the circuit is the end station that
-- initiates the circuit.  The target of the circuit is the end
-- station that receives the initiation.
-- ****************************************************************************

-- ----------------------------------------------------------------
-- Statistics Related to
 Circuits
-- ----------------------------------------------------------------
dlswCircuitStat      OBJECT IDENTIFIER ::= { dlswCircuit 1 }

dlswCircuitStatActives  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The current number of circuits in dlswCircuitTable that are
     not in the disconnected state."
  ::= { dlswCircuitStat 1 }

dlswCircuitStatCreates  OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of entries ever added to dlswCircuitTable,
     or reactivated upon exiting `disconnected' state."
  ::= { dlswCircuitStat 2 }


-- ----------------------------------------------------------------
```

```
-- Circuit Table
--
-- This table is the DLSw entity's view of circuits.  There will be
-- a conceptual row in the table associated with each data link.
--
-- The chart below lists the various possible combinations of
-- origin and target MAC
 locations and the number of entries in
-- this Circuit Table:
--
--          number of       |    Origin End Station Location
--         entries in the    |--------------------------------------
--         Circuit Table     | internal     local       remote
--     ---------------------- |--------------------------------------
--     Target    | internal |     NA          2           1
--     End       | local    |     2           2           1
--     Station   | remote   |     1           1           NA
--     Location  |          |
--
--     NA: Not applicable
--
--  Note:
--  (a) IfIndex and RouteInfo are applied only if location is local.
--  (b) TDomain and TAddr are applied only if location is remote.
--
-- Most of statistics related to circuits can be collected
-- from LLC-2 Link Station Table.
-- --------------------------------------------------------------------
dlswCircuitTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS
    current
  DESCRIPTION
     "This table is the circuit representation in the DLSw
      entity. Virtual data links are used to represent any internal
      end stations.  There is a conceptual row associated with
      each data link.  Thus, for circuits without an intervening
      transport connection, there are two conceptual rows
      for each circuit.

      The table consists of the circuits being established,
      established, and as an implementation option, circuits that
      have been disconnected.  For circuits carried over
      transport connections, an entry is created after
      the CUR_cs was sent or received.  For circuits between
      two locally attached devices, or internal virtual MAC
      addresses, an entry is created when the equivalent of
```

```
      CUR_cs sent/received status is reached.

      End station 1 (S1) and End station 2 (S2) are used to
      represent the two end stations of the circuit.
      S1 is always
 an end station which is locally attached.
      S2 may be locally attached or remote.  If it is locally
      attached, the circuit will be represented by two rows indexed
      by (A, B) and (B, A) where A & B are the relevant MACs/SAPs.

      The table may be used to store the causes of disconnection of
      circuits.  It is recommended that the oldest disconnected
      circuit entry be removed from this table when the memory
      space of disconnected circuits is needed."
  ::= { dlswCircuit 2 }

dlswCircuitEntry  OBJECT-TYPE
  SYNTAX     DlswCircuitEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    ""
  INDEX   { dlswCircuitS1Mac,
            dlswCircuitS1Sap,
            dlswCircuitS2Mac,
            dlswCircuitS2Sap }
  ::= { dlswCircuitTable 1 }

DlswCircuitEntry ::= SEQUENCE {
  dlswCircuitS1Mac             MacAddressNC,
  dlswCircuitS1Sap             OCTET STRING,
  dlswCircuitS1IfIndex          INTEGER,
   dlswCircuitS1DlcType          DlcType,
  dlswCircuitS1RouteInfo        OCTET STRING,
  dlswCircuitS1CircuitId        OCTET STRING,
  dlswCircuitS1Dlc             RowPointer,

  dlswCircuitS2Mac             MacAddressNC,
  dlswCircuitS2Sap             OCTET STRING,
  dlswCircuitS2Location         EndStationLocation,
  dlswCircuitS2TDomain          OBJECT IDENTIFIER,
  dlswCircuitS2TAddress         TAddress,
  dlswCircuitS2CircuitId        OCTET STRING,

  dlswCircuitOrigin            INTEGER,

  dlswCircuitEntryTime          TimeTicks,
  dlswCircuitStateTime          TimeTicks,
```

```
  dlswCircuitState               INTEGER,

  dlswCircuitPriority            INTEGER,

  dlswCircuitFCSendGrantedUnits   INTEGER,
  dlswCircuitFCSendCurrentWndw    INTEGER,
  dlswCircuitFCRecvGrantedUnits   INTEGER,
  dlswCircuitFCRecvCurrentWndw    INTEGER,
  dlswCircuitFCLargestRecvGranted Gauge32,
  dlswCircuitFCLargestSendGranted
 Gauge32,
  dlswCircuitFCHalveWndwSents     Counter32,
  dlswCircuitFCResetOpSents       Counter32,
  dlswCircuitFCHalveWndwRcvds     Counter32,
  dlswCircuitFCResetOpRcvds       Counter32,
  dlswCircuitDiscReasonLocal      INTEGER,
  dlswCircuitDiscReasonRemote     INTEGER,
  dlswCircuitDiscReasonRemoteData OCTET STRING
  }

-- ..........................................................................
-- Information related to the End Station 1 (S1).
-- ..........................................................................
dlswCircuitS1Mac  OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 1 }

dlswCircuitS1Sap  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(1))
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The SAP at End Station 1 (S1) used for this circuit."
  ::= { dlswCircuitEntry 2 }

dlswCircuitS1IfIndex
 OBJECT-TYPE
  SYNTAX     INTEGER (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The ifEntry index of the local interface through which S1
     can be reached."
  ::= { dlswCircuitEntry 3 }
```

```
dlswCircuitS1DlcType  OBJECT-TYPE
  SYNTAX     DlcType
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The DLC protocol in use between the DLSw node and S1."
  ::= { dlswCircuitEntry 4 }

dlswCircuitS1RouteInfo  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0..30))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "If source-route bridging is in use between the DLSw
     node and S1, this is the routing information field
     describing the path between the two devices.
     Otherwise the value will be an OCTET STRING of
     zero length."
  ::= { dlswCircuitEntry 5 }

dlswCircuitS1CircuitId  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 8))
  MAX-ACCESS read-only
   STATUS     current
  DESCRIPTION
    "The Circuit ID assigned by this DLSw node to this circuit.
     The first four octets are the DLC port Id, and
     the second four octets are the Data Link Correlator.
     If the DLSw SSP was not used to establish this circuit,
     the value will be a string of zero length."
  ::= { dlswCircuitEntry 6 }

dlswCircuitS1Dlc  OBJECT-TYPE
  SYNTAX     RowPointer
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Points to a conceptual row of the underlying DLC MIB,
     which could either be the standard MIBs (e.g., the SDLC),
     or an enterprise-specific DLC MIB."
  ::= { dlswCircuitEntry 7 }

-- ..........................................................
-- Information related to the End Station 2 (S2).
-- ..........................................................
dlswCircuitS2Mac  OBJECT-TYPE
  SYNTAX     MacAddressNC
```

```
  MAX-ACCESS not-accessible
  STATUS     current

 DESCRIPTION
    "The MAC Address of End Station 2 (S2) used for this circuit."
  ::= { dlswCircuitEntry 8 }

dlswCircuitS2Sap  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(1))
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The SAP at End Station 2 (S2) used for this circuit."
  ::= { dlswCircuitEntry 9 }

dlswCircuitS2Location  OBJECT-TYPE
  SYNTAX     EndStationLocation
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The location of End Station 2 (S2).
     If the location of End Station 2 is local, the
     interface information will be available in the
     conceptual row whose S1 and S2 are the S2 and
     the S1 of this conceptual row, respectively."
  ::= { dlswCircuitEntry 10 }

dlswCircuitS2TDomain  OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "If the location of End Station 2 is remote,
     this value is the transport domain
 of the
     transport protocol the circuit is running
     over.  Otherwise, the value is 0.0."
  ::= { dlswCircuitEntry 11 }

dlswCircuitS2TAddress  OBJECT-TYPE
  SYNTAX     TAddress
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "If the location of End Station 2 is remote,
     this object contains the address of the partner
     DLSw, else it will be an OCTET STRING of zero length."
  ::= { dlswCircuitEntry 12 }
```

```
dlswCircuitS2CircuitId  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 8))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The Circuit ID assigned to this circuit by the partner
     DLSw node.  The first four octets are the DLC port Id, and
     the second four octets are the Data Link Correlator.
     If the DLSw SSP was not used to establish this circuit,
     the value will be a string of zero length."
  ::= { dlswCircuitEntry 13 }

-- ..........................................................
dlswCircuitOrigin
 OBJECT-TYPE
  SYNTAX     INTEGER  {
     s1           (1),
     s2           (2)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "This object specifies which of the two end stations
     initiated the establishment of this circuit."
  ::= { dlswCircuitEntry 14 }

-- ..........................................................
-- Operational information related to this circuit.
-- ..........................................................
dlswCircuitEntryTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The amount of time (in hundredths of a second) since this
     circuit table conceptual row was created."
  ::= { dlswCircuitEntry 15 }

dlswCircuitStateTime  OBJECT-TYPE
  SYNTAX     TimeTicks
  UNITS      "hundredths of a second"
  MAX-ACCESS read-only
  STATUS     current
   DESCRIPTION
    "The amount of time (in hundredths of a second) since this
     circuit entered the current state."
```

```
  ::= { dlswCircuitEntry 16 }

dlswCircuitState  OBJECT-TYPE
  SYNTAX     INTEGER  {
     disconnected          (1),
     circuitStart          (2),
     resolvePending        (3),
     circuitPending        (4),
     circuitEstablished    (5),
     connectPending        (6),
     contactPending        (7),
     connected             (8),
     disconnectPending     (9),
     haltPending           (10),
     haltPendingNoack      (11),
     circuitRestart        (12),
     restartPending        (13)
  }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "The current state of this circuit.  The agent, implementation
     specific, may choose to keep entries for some period of time
     after circuit disconnect, so the manager can gather the time
     and cause of disconnection.

      While all of the specified values may be returned from a GET
     operation, the only SETable value is `disconnectPending'.
     When this value is set, DLSw should perform the appropriate
     action given its previous state (e.g., send HALT_DL if the
     state was `connected') to bring the circuit down to the
     `disconnected' state.  Both the partner DLSw and local end
     station(s) should be notified as appropriate.

     This MIB provides no facility to re-establish a disconnected
     circuit, because in DLSw this should be an end station-driven
     function."
  ::= { dlswCircuitEntry 17 }

dlswCircuitPriority  OBJECT-TYPE
  SYNTAX     INTEGER  {
     unsupported     (1),
     low             (2),
     medium          (3),
     high            (4),
     highest         (5)
  }
  MAX-ACCESS read-only
```

```
  STATUS     current
  DESCRIPTION
     "The transmission priority of this circuit as understood by
      this
 DLSw node.  This value is determined by the two DLSw
      nodes at circuit startup time.  If this DLSw node does not
      support DLSw circuit priority, the value `unsupported' should
      be returned."
  ::= { dlswCircuitEntry 18 }

-- ..........................................................................
-- Pacing Objects:
-- These objects are applicable if DLSw is using the SSP circuit
-- pacing protocol to control the flow between the two data links
-- in this circuit.
-- ..........................................................................
dlswCircuitFCSendGrantedUnits  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of paced SSP messages that this DLSw is currently
      authorized to send on this circuit before it must stop and
      wait for an additional flow control indication from the
      partner DLSw.

      The value zero should be returned if this circuit is not
      running
 the DLSw pacing protocol."
  ::= { dlswCircuitEntry 19 }

dlswCircuitFCSendCurrentWndw  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The current window size that this DLSw is using in its role
      as a data sender.  This is the value by which this DLSw would
      increase the number of messages it is authorized to send, if
      it were to receive a flow control indication with the bits
      specifying `repeat window'.
      The value zero should be returned if this circuit is not
      running the DLSw pacing protocol."
  ::= { dlswCircuitEntry 20 }

dlswCircuitFCRecvGrantedUnits  OBJECT-TYPE
  SYNTAX     INTEGER (0..65535)
  MAX-ACCESS read-only
```

```
    STATUS      current
    DESCRIPTION
        "The current number of paced SSP messages that this DLSw has
         authorized the partner DLSw to send on this circuit before
         the partner DLSw must stop and wait for an additional flow

        control indication from this DLSw.

         The value zero should be returned if this circuit is not
         running the DLSw pacing protocol."
    ::= { dlswCircuitEntry 21 }

dlswCircuitFCRecvCurrentWndw  OBJECT-TYPE
    SYNTAX      INTEGER (0..65535)
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The current window size that this DLSw is using in its role
         as a data receiver.  This is the number of additional paced
         SSP messages that this DLSw would be authorizing its DLSw
         partner to send, if this DLSw were to send a flow control
         indication with the bits specifying `repeat window'.

         The value zero should be returned if this circuit is not
         running the DLSw pacing protocol."
    ::= { dlswCircuitEntry 22 }

dlswCircuitFCLargestRecvGranted  OBJECT-TYPE
    SYNTAX      Gauge32
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The largest receive window size granted by this DLSw during

    the current activation of this circuit.  This is not the
         largest number of messages granted at any time, but the
         largest window size as represented by FCIND operator bits.

         The value zero should be returned if this circuit is not
         running the DLSw pacing protocol."
    ::= { dlswCircuitEntry 23 }

dlswCircuitFCLargestSendGranted  OBJECT-TYPE
    SYNTAX      Gauge32
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The largest send (with respect to this DLSw) window size
```

granted by the partner DLSw during the current activation of
this circuit.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 24 }

dlswCircuitFCHalveWndwSents OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of Halve Window operations this DLSw has sent on
this circuit, in its role as a data
receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 25 }

dlswCircuitFCResetOpSents OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of Reset Window operations this DLSw has sent on
this circuit, in its role as a data receiver.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 26 }

dlswCircuitFCHalveWndwRcvds OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of Halve Window operations this DLSw has received on
this circuit, in its role as a data sender.

The value zero should be returned if this circuit is not
running the DLSw pacing protocol."
::= { dlswCircuitEntry 27 }

dlswCircuitFCResetOpRcvds OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current

```
  DESCRIPTION
     "The number of Reset Window operations this DLSw has received on
      this circuit, in its role as a data sender.
      The value zero should be returned if this circuit is not
      running the DLSw pacing protocol."
  ::= { dlswCircuitEntry 28 }


-- ...........................................................
-- Information about the circuit disconnection
-- ...........................................................
dlswCircuitDiscReasonLocal  OBJECT-TYPE
  SYNTAX     INTEGER  {
      endStationDiscRcvd          (1),
      endStationDlcError          (2),
      protocolError               (3),
      operatorCommand             (4),
      haltDlRcvd                  (5),
      haltDlNoAckRcvd             (6),
      transportConnClosed         (7)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The reason why this circuit was last
 disconnected, as seen
      by this DLSw node.

      This object is present only if the agent keeps circuit
      table entries around for some period after circuit disconnect."
  ::= { dlswCircuitEntry 29 }

dlswCircuitDiscReasonRemote  OBJECT-TYPE
  SYNTAX     INTEGER  {
      unknown                     (1),
      endStationDiscRcvd          (2),
      endStationDlcError          (3),
      protocolError               (4),
      operatorCommand             (5)
  }
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The generic reason code why this circuit was last
      disconnected, as reported by the DLSw partner in a HALT_DL
      or HALT_DL_NOACK.  If the partner does not send a reason
      code in these messages, or the DLSw implementation does
      not report receiving one, the value `unknown' is returned.
```

```
      This object is present only if the agent keeps circuit table
      entries around for some period after
 circuit disconnect."
  ::= { dlswCircuitEntry 30 }

dlswCircuitDiscReasonRemoteData  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 4))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "Implementation-specific data reported by the DLSw partner in
     a HALT_DL or HALT_DL_NOACK, to help specify how and why this
     circuit was last disconnected.  If the partner does not send
     this data in these messages, or the DLSw implementation does
     not report receiving it, a string of zero length is returned.

     This object is present only if the agent keeps circuit table
     entries around for some period after circuit disconnect."
  ::= { dlswCircuitEntry 31 }


-- ...........................................................
-- Statistics related to this circuit.
-- All statistics are in LLC-2 Link Station Statistical Table.
-- All SDLC statistics are in SDLC MIB
-- ...........................................................


--
 ********************************************************************
-- DLSW SDLC EXTENSION
-- ********************************************************************
dlswSdlcLsEntries  OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The number of entries in dlswSdlcLsTable."
  ::= { dlswSdlc 1 }

-- ...........................................................
dlswSdlcLsTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF DlswSdlcLsEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "The table defines the virtual MAC addresses for those
```

```
      SDLC link stations that participate in data link switching."
   ::= { dlswSdlc 2 }

dlswSdlcLsEntry  OBJECT-TYPE
   SYNTAX     DlswSdlcLsEntry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "The index of this table is the ifIndex value for the
       SDLC port which owns this link station and the poll
       address of
 the particular SDLC link station."
   INDEX  { ifIndex, sdlcLSAddress }
   ::= { dlswSdlcLsTable 1 }

DlswSdlcLsEntry ::= SEQUENCE {
   dlswSdlcLsLocalMac          MacAddressNC,
   dlswSdlcLsLocalSap          OCTET STRING,
   dlswSdlcLsLocalIdBlock      DisplayString,
   dlswSdlcLsLocalIdNum        DisplayString,
   dlswSdlcLsRemoteMac         MacAddressNC,
   dlswSdlcLsRemoteSap         OCTET STRING,
   dlswSdlcLsRowStatus         RowStatus
   }

dlswSdlcLsLocalMac    OBJECT-TYPE
   SYNTAX     MacAddressNC
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The virtual MAC address used to represent the SDLC-attached
       link station to the rest of the DLSw network."
   ::= { dlswSdlcLsEntry 1 }

dlswSdlcLsLocalSap    OBJECT-TYPE
   SYNTAX     OCTET STRING (SIZE(1))
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The SAP used to represent this link station."
   ::= { dlswSdlcLsEntry 2 }

dlswSdlcLsLocalIdBlock OBJECT-TYPE
    SYNTAX     DisplayString  (SIZE (0 | 3))
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The block number is the first three digits of the node_id,
```

```
      if available.  These 3 hexadecimal digits identify the
      product."
  DEFVAL { "H" }
  ::= { dlswSdlcLsEntry 3 }

dlswSdlcLsLocalIdNum OBJECT-TYPE
  SYNTAX     DisplayString  (SIZE (0 | 5))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The ID number is the last 5 digits of the node_id, if
     available.  These 5 hexadecimal digits are
     administratively defined and combined with the 3 digit
     block number form the node_id.  This node_id is used to
     identify the local node and is included in SNA XIDs."
  DEFVAL { "H" }
  ::= { dlswSdlcLsEntry 4 }

dlswSdlcLsRemoteMac    OBJECT-TYPE
  SYNTAX     MacAddressNC
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The MAC address to which DLSw should attempt to
 connect
     this link station. If this information is not available,
     a length of zero for this object should be returned."
  DEFVAL { "H" }
  ::= { dlswSdlcLsEntry 5 }

dlswSdlcLsRemoteSap    OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE (0 | 1))
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "The SAP of the remote station to which this link
     station should be connected.  If this information
     is not available, a length of zero for this object
     should be returned."
  DEFVAL { "H" }
  ::= { dlswSdlcLsEntry 6 }

dlswSdlcLsRowStatus    OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
    "This object is used by the manager to create
```

```
      or delete the row entry in the dlswSdlcLsTable
      following the RowStatus textual convention."
   ::= { dlswSdlcLsEntry 7 }


-- ********************************************************************
-- TRAP GENERATION CONTROL
--
 ********************************************************************
dlswTrapControl OBJECT IDENTIFIER  ::= { dlswNode 10}

dlswTrapCntlTConnPartnerReject  OBJECT-TYPE
   SYNTAX     INTEGER  {
      enabled     (1),
      disabled    (2),
      partial     (3)
   }
   MAX-ACCESS read-write
   STATUS     current
   DESCRIPTION
     "Indicates whether the DLSw is permitted to emit partner
      reject related traps.  With the value of `enabled'
      the DLSw will emit all partner reject related traps.
      With the value of `disabled' the DLSw will not emit
      any partner reject related traps.  With the value
      of `partial' the DLSw will only emits partner reject
      traps for CapEx reject.  The changes take effect
      immediately."
   ::= { dlswTrapControl 1 }

dlswTrapCntlTConnProtViolation  OBJECT-TYPE
   SYNTAX     TruthValue
   MAX-ACCESS read-write
   STATUS     current
   DESCRIPTION
     "Indicates whether the DLSw is permitted to generate
       protocol-violation traps on the events such as
      window size violation.  The changes take effect
      immediately."
   ::= { dlswTrapControl 2 }

dlswTrapCntlTConn  OBJECT-TYPE
   SYNTAX     INTEGER {
      enabled     (1),
      disabled    (2),
      partial     (3)
   }
   MAX-ACCESS read-write
```

```
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to emit transport
     connection up and down traps.  With the value of `enabled'
     the DLSw will emit traps when connections enter `connected'
     and `disconnected' states.  With the value of `disabled'
     the DLSw will not emit traps when connections enter of
     `connected' and `disconnected' states.  With the value
     of `partial' the DLSw will only emits transport connection
     down traps when the connection is closed with busy.
     The changes take effect immediately."
  ::= { dlswTrapControl 3 }

dlswTrapCntlCircuit  OBJECT-TYPE
   SYNTAX     INTEGER {
      enabled     (1),
      disabled    (2),
      partial     (3)
   }
  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
    "Indicates whether the DLSw is permitted to generate
     circuit up and down traps.  With the value of `enabled'
     the DLSw will emit traps when circuits enter `connected'
     and `disconnected' states.  With the value of `disabled'
     the DLSw will not emit traps when circuits enter of
     `connected' and `disconnected' states.  With the value
     of `partial' the DLSw will emit traps only for those
     circuits that are initiated by this DLSw, e.g.,
     originating the CUR_CS message.  The changes take effect
     immediately."
  ::= { dlswTrapControl 4 }

-- ****************************************************************************
-- NOTIFICATIONS, i.e., TRAP DEFINITIONS
-- ****************************************************************************
dlswTraps             OBJECT IDENTIFIER
 ::= { dlswMIB 0 }

-- ----------------------------------------------------------------
-- This section defines the well-known notifications sent by
-- DLSW agents.
-- Care must be taken to insure that no particular notification
-- is sent to a single receiving entity more often than once
-- every five seconds.
--
-- Traps includes:
```

```
-- (1) Partner rejected (capEx rejection, not in partner list, etc.)
-- (2) DLSw protocol violation (e.g., window size violation, etc.)
-- (3) Transport connection up/down

-- (4) Circuit up/down
-- ------------------------------------------------------------------
--

dlswTrapTConnPartnerReject NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a transport connection
     is rejected by a partner DLSw during Capabilities
     Exchanges.  The emission of this trap is controlled
     by dlswTrapCntlTConnPartnerReject."
  ::= { dlswTraps
 1 }

dlswTrapTConnProtViolation NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a protocol violation is
     detected for a transport connection.  The emission of this
     trap is controlled by dlswTrapCntlTConnProtViolation."
  ::= { dlswTraps 2 }

dlswTrapTConnUp NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a transport connection
     enters `connected' state.  The emission of this trap
     is controlled by dlswTrapCntlTConn."
  ::= { dlswTraps 3 }

dlswTrapTConnDown NOTIFICATION-TYPE
  OBJECTS { dlswTConnOperTDomain, dlswTConnOperRemoteTAddr
  }
  STATUS     current
  DESCRIPTION
    "This trap is sent each time a transport connection
     enters `disconnected' state.  The emission of this trap
     is controlled by dlswTrapCntlTConn."
```

```
   ::= { dlswTraps 4 }

dlswTrapCircuitUp NOTIFICATION-TYPE
  OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
          dlswCircuitS2Mac, dlswCircuitS2Sap
  }
  STATUS     current
  DESCRIPTION
     "This trap is sent each time a circuit enters `connected'
      state.  The emission of this trap is controlled by
      dlswTrapCntlCircuit."
  ::= { dlswTraps 5 }

dlswTrapCircuitDown NOTIFICATION-TYPE
  OBJECTS { dlswCircuitS1Mac, dlswCircuitS1Sap,
          dlswCircuitS2Mac, dlswCircuitS2Sap
  }
  STATUS     current
  DESCRIPTION
     "This trap is sent each time a circuit enters `disconnected'
      state.  The emission of this trap is controlled by
      dlswTrapCntlCircuit."
  ::= { dlswTraps 6 }


-- ************************************************************************
-- CONFORMANCE INFORMATION
-- ************************************************************************
dlswConformance       OBJECT IDENTIFIER ::= { dlsw 3 }

dlswCompliances
       OBJECT IDENTIFIER ::= { dlswConformance 1 }
dlswGroups            OBJECT IDENTIFIER ::= { dlswConformance 2 }

-- ------------------------------------------------------------------
-- COMPLIANCE STATEMENTS
-- ------------------------------------------------------------------

-- ..................................................................
-- Core compliance for all DLSw entities
-- ..................................................................
dlswCoreCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
     "The core compliance statement for all DLSw nodes."
  MODULE
     MANDATORY-GROUPS  {
          dlswNodeGroup,
```

```
            dlswTConnStatGroup,
            dlswTConnConfigGroup,
            dlswTConnOperGroup,
            dlswInterfaceGroup,
            dlswCircuitGroup,
            dlswCircuitStatGroup,
            dlswNotificationGroup }

        GROUP dlswNodeNBGroup
          DESCRIPTION

        "The DLSw NetBIOS Node group is mandatory only for
            those DLSw entities that implement NetBIOS."

        GROUP dlswTConnNBGroup
          DESCRIPTION
            "The DLSw NetBIOS Transport Connection group is
            mandatory only for those DLSw entities that
            implement NetBIOS."

        OBJECT  dlswNodeStatus
          MIN-ACCESS  read-only
          DESCRIPTION
            "Write access is not required."

        OBJECT  dlswNodeVirtualSegmentLFSize
          MIN-ACCESS  read-only
          DESCRIPTION
            "Write access is not required."

        OBJECT  dlswNodeResourceNBExclusivity
          MIN-ACCESS  read-only
          DESCRIPTION
            "Write access is not required."

        OBJECT  dlswNodeResourceMacExclusivity
          MIN-ACCESS  read-only
          DESCRIPTION
            "Write access is not required."

        OBJECT  dlswTrapCntlTConnPartnerReject
          MIN-ACCESS
    read-only
          DESCRIPTION
            "Write access is not required."

        OBJECT  dlswTrapCntlTConnProtViolation
          MIN-ACCESS  read-only
```

DESCRIPTION
"Write access is not required."

OBJECT dlswTrapCntlTConn
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."
OBJECT dlswTrapCntlCircuit
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigTDomain
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigLocalTAddr
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigRemoteTAddr
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigEntryType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigGroupDefinition
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigSetupType
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigSapList
MIN-ACCESS read-only
DESCRIPTION
"Write access is not required."

OBJECT dlswTConnConfigAdvertiseMacNB

```
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswTConnConfigInitCirRecvWndw
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswTConnConfigRowStatus
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is
not required."

    OBJECT  dlswTConnOperState
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswIfRowStatus
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswIfVirtualSegment
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswIfSapList
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

    OBJECT  dlswCircuitState
        MIN-ACCESS  read-only
        DESCRIPTION
            "Write access is not required."

  ::= { dlswCompliances 1 }

-- ..........................................................
-- Compliance for all DLSw entities that provide TCP transport.
-- ..........................................................
dlswTConnTcpCompliance MODULE-COMPLIANCE
```

```
    STATUS current
     DESCRIPTION
       "Compliance for DLSw nodes that use TCP as a
       transport connection protocol."
     MODULE
       MANDATORY-GROUPS  {
            dlswTConnTcpConfigGroup,
            dlswTConnTcpOperGroup }

       OBJECT  dlswTConnTcpConfigKeepAliveInt
          MIN-ACCESS  read-only
          DESCRIPTION
             "Write access is not required."

       OBJECT  dlswTConnTcpConfigTcpConnections
          MIN-ACCESS  read-only
          DESCRIPTION
             "Write access is not required."

       OBJECT  dlswTConnTcpConfigMaxSegmentSize
          MIN-ACCESS  read-only
          DESCRIPTION
             "Write access is not required."

     ::= { dlswCompliances 2 }

-- ..........................................................................
-- Compliance for all DLSw Entities that implement a directory
-- ..........................................................................
dlswDirCompliance MODULE-COMPLIANCE
     STATUS current
      DESCRIPTION
       "Compliance for DLSw nodes that provide a directory
       function."
     MODULE
       MANDATORY-GROUPS  {
            dlswDirGroup }

       GROUP dlswDirNBGroup
          DESCRIPTION
            "The DLSw NetBIOS group is mandatory only for
            those DLSw entities that implement NetBIOS."

       OBJECT  dlswDirMacMac
          MIN-ACCESS  read-only
          DESCRIPTION
             "Write access is not required."
```

```
OBJECT  dlswDirMacMask
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirMacEntryType
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."
OBJECT  dlswDirMacLocationType
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirMacLocation
   MIN-ACCESS  read-only
   DESCRIPTION
       "Write access is not required."

OBJECT  dlswDirMacStatus
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirMacLFSize
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirMacRowStatus
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirNBName
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirNBNameType
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."

OBJECT  dlswDirNBEntryType
   MIN-ACCESS  read-only
   DESCRIPTION
      "Write access is not required."
```

```
        OBJECT  dlswDirNBLocationType
            MIN-ACCESS  read-only
            DESCRIPTION

    "Write access is not required."

        OBJECT  dlswDirNBLocation
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswDirNBStatus
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswDirNBLFSize
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

        OBJECT  dlswDirNBRowStatus
            MIN-ACCESS  read-only
            DESCRIPTION
                "Write access is not required."

    ::= { dlswCompliances 3 }

-- ..........................................................
-- Compliance for all DLSw entities that provide an ordered
-- list of directory entries that match a resource
-- ..........................................................
dlswDirLocateCompliance MODULE-COMPLIANCE
    STATUS current
    DESCRIPTION
        "Compliance for DLSw nodes that provide
 an ordered
        list of directory entries for a given resource."
    MODULE
        MANDATORY-GROUPS  {
            dlswDirLocateGroup }

        GROUP dlswDirLocateNBGroup
            DESCRIPTION
              "The DLSw NetBIOS group is mandatory only for
               those DLSw entities that implement NetBIOS."
```

```
  ::= { dlswCompliances 4 }

-- ..........................................................................
-- Compliance for all DLSw entities that support SDLC end stations
-- ..........................................................................
dlswSdlcCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that support SDLC."
  MODULE
    MANDATORY-GROUPS  {
          dlswSdlcGroup }

    OBJECT  dlswSdlcLsLocalMac
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT  dlswSdlcLsLocalSap
      MIN-ACCESS  read-only
      DESCRIPTION
         "Write access is not required."

    OBJECT  dlswSdlcLsLocalIdBlock
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT  dlswSdlcLsLocalIdNum
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT  dlswSdlcLsRemoteMac
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT  dlswSdlcLsRemoteSap
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."

    OBJECT  dlswSdlcLsRowStatus
      MIN-ACCESS  read-only
      DESCRIPTION
        "Write access is not required."
```

```
  ::= { dlswCompliances 5 }

-- ---------------------------------------------------------------
-- CONFORMANCE GROUPS
-- ---------------------------------------------------------------

-- ..............................................................
--
 Node Conformance Group
-- ..............................................................
dlswNodeGroup  OBJECT-GROUP
  OBJECTS  {
     dlswNodeVersion,
     dlswNodeVendorID,
     dlswNodeVersionString,
     dlswNodeStdPacingSupport,
     dlswNodeStatus,
     dlswNodeUpTime,
     dlswNodeVirtualSegmentLFSize,
     dlswNodeResourceMacExclusivity,
     dlswTrapCntlTConnPartnerReject,
     dlswTrapCntlTConnProtViolation,
     dlswTrapCntlTConn,
     dlswTrapCntlCircuit
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw node general information."
  ::= { dlswGroups 1 }

-- ..............................................................
dlswNodeNBGroup  OBJECT-GROUP
  OBJECTS  {
     dlswNodeResourceNBExclusivity
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw node general information
     specifically for nodes that support NetBIOS."
  ::=
 { dlswGroups 2 }

-- ..............................................................
dlswTConnStatGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnStatActiveConnections,
     dlswTConnStatCloseIdles,
     dlswTConnStatCloseBusys
```

```
      }
  STATUS current
  DESCRIPTION
    "Conformance group for statistics for transport
     connections."
  ::= { dlswGroups 3 }

-- ..........................................................
dlswTConnConfigGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnConfigTDomain,
     dlswTConnConfigLocalTAddr,
     dlswTConnConfigRemoteTAddr,
     dlswTConnConfigLastModifyTime,
     dlswTConnConfigEntryType,
     dlswTConnConfigGroupDefinition,
     dlswTConnConfigSetupType,
     dlswTConnConfigSapList,
     dlswTConnConfigAdvertiseMacNB,
     dlswTConnConfigInitCirRecvWndw,
     dlswTConnConfigOpens,
     dlswTConnConfigRowStatus
     }
  STATUS current
  DESCRIPTION
    "Conformance
 group for the configuration of
     transport connections."
  ::= { dlswGroups 4 }

-- ..........................................................
dlswTConnOperGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnOperLocalTAddr,
     dlswTConnOperEntryTime,
     dlswTConnOperConnectTime,
     dlswTConnOperState,
     dlswTConnOperConfigIndex,
     dlswTConnOperFlowCntlMode,
     dlswTConnOperPartnerVersion,
     dlswTConnOperPartnerVendorID,
     dlswTConnOperPartnerVersionStr,
     dlswTConnOperPartnerInitPacingWndw,
     dlswTConnOperPartnerSapList,
     dlswTConnOperPartnerMacExcl,
     dlswTConnOperPartnerMacInfo,
     dlswTConnOperDiscTime,
     dlswTConnOperDiscReason,
```

```
        dlswTConnOperDiscActiveCir,
        dlswTConnOperInDataPkts,
        dlswTConnOperOutDataPkts,
        dlswTConnOperInDataOctets,
        dlswTConnOperOutDataOctets,
        dlswTConnOperInCntlPkts,
        dlswTConnOperOutCntlPkts,
        dlswTConnOperCURexSents,
         dlswTConnOperICRexRcvds,
        dlswTConnOperCURexRcvds,
        dlswTConnOperICRexSents,
        dlswTConnOperCirCreates,
        dlswTConnOperCircuits
        }
    STATUS current
    DESCRIPTION
      "Conformance group for operation information for
      transport connections."
    ::= { dlswGroups 5 }
-- ..........................................................................
dlswTConnNBGroup  OBJECT-GROUP
    OBJECTS  {
        dlswTConnOperPartnerNBExcl,
        dlswTConnOperPartnerNBInfo,
        dlswTConnOperNQexSents,
        dlswTConnOperNRexRcvds,
        dlswTConnOperNQexRcvds,
        dlswTConnOperNRexSents
        }
    STATUS current
    DESCRIPTION
      "Conformance group for operation information for
      transport connections, specifically for nodes
      that support NetBIOS."
    ::= { dlswGroups 6 }

-- ..........................................................................
dlswTConnTcpConfigGroup  OBJECT-GROUP
    OBJECTS  {
        dlswTConnTcpConfigKeepAliveInt,
         dlswTConnTcpConfigTcpConnections,
        dlswTConnTcpConfigMaxSegmentSize
        }
    STATUS current
    DESCRIPTION
      "Conformance group for configuration information for
      transport connections using TCP."
    ::= { dlswGroups 7 }
```

```
-- ..................................................................
dlswTConnTcpOperGroup  OBJECT-GROUP
  OBJECTS  {
     dlswTConnTcpOperKeepAliveInt,
     dlswTConnTcpOperPrefTcpConnections,
     dlswTConnTcpOperTcpConnections
     }
  STATUS current
  DESCRIPTION
    "Conformance group for operation information for
     transport connections using TCP."
  ::= { dlswGroups 8 }

-- ..................................................................
dlswInterfaceGroup  OBJECT-GROUP
  OBJECTS  {
     dlswIfRowStatus,
     dlswIfVirtualSegment,
     dlswIfSapList
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw interfaces."
  ::= { dlswGroups
 9 }

-- ..................................................................
dlswDirGroup  OBJECT-GROUP
  OBJECTS  {
     dlswDirMacEntries,
     dlswDirMacCacheHits,
     dlswDirMacCacheMisses,
     dlswDirMacCacheNextIndex,
     dlswDirMacMac,
     dlswDirMacMask,
     dlswDirMacEntryType,
     dlswDirMacLocationType,
     dlswDirMacLocation,
     dlswDirMacStatus,
     dlswDirMacLFSize,
     dlswDirMacRowStatus
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw directory using MAC
     addresses."
  ::= { dlswGroups 10 }
```

```
-- ..................................................................
dlswDirNBGroup  OBJECT-GROUP
  OBJECTS  {
     dlswDirNBEntries,
     dlswDirNBCacheHits,
     dlswDirNBCacheMisses,
     dlswDirNBCacheNextIndex,
     dlswDirNBName,
     dlswDirNBNameType,
     dlswDirNBEntryType,
     dlswDirNBLocationType,
     dlswDirNBLocation,
     dlswDirNBStatus,
      dlswDirNBLFSize,
     dlswDirNBRowStatus
     }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw directory using NetBIOS
    names."
  ::= { dlswGroups 11 }

-- ..................................................................
dlswDirLocateGroup  OBJECT-GROUP
  OBJECTS  {
     dlswDirLocateMacLocation
     }
  STATUS current
  DESCRIPTION
    "Conformance group for a node that can return directory
    entry order for a given MAC address."
  ::= { dlswGroups 12 }

-- ..................................................................
dlswDirLocateNBGroup  OBJECT-GROUP
  OBJECTS  {
     dlswDirLocateNBLocation
     }
  STATUS current
  DESCRIPTION
    "Conformance group for a node that can return directory
    entry order for a given NetBIOS name."
  ::= { dlswGroups 13 }

-- ..................................................................
dlswCircuitStatGroup  OBJECT-GROUP
  OBJECTS  {
```

```
      dlswCircuitStatActives,
       dlswCircuitStatCreates
      }
  STATUS current
  DESCRIPTION
    "Conformance group for statistics about circuits."
  ::= { dlswGroups 14 }

-- ..........................................................
dlswCircuitGroup  OBJECT-GROUP
  OBJECTS  {
      dlswCircuitS1IfIndex,
      dlswCircuitS1DlcType,
      dlswCircuitS1RouteInfo,
      dlswCircuitS1CircuitId,
      dlswCircuitS1Dlc,
      dlswCircuitS2Location,
      dlswCircuitS2TDomain,
      dlswCircuitS2TAddress,
      dlswCircuitS2CircuitId,
      dlswCircuitOrigin,
      dlswCircuitEntryTime,
      dlswCircuitStateTime,
      dlswCircuitState,
      dlswCircuitPriority,
      dlswCircuitFCSendGrantedUnits,
      dlswCircuitFCSendCurrentWndw,
      dlswCircuitFCRecvGrantedUnits,
      dlswCircuitFCRecvCurrentWndw,
      dlswCircuitFCLargestRecvGranted,
      dlswCircuitFCLargestSendGranted,
      dlswCircuitFCHalveWndwSents,
      dlswCircuitFCResetOpSents,
       dlswCircuitFCHalveWndwRcvds,
      dlswCircuitFCResetOpRcvds,
      dlswCircuitDiscReasonLocal,
      dlswCircuitDiscReasonRemote,
      dlswCircuitDiscReasonRemoteData
      }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw circuits."
  ::= { dlswGroups 15 }

-- ..........................................................
dlswSdlcGroup  OBJECT-GROUP
  OBJECTS  {
      dlswSdlcLsEntries,
```

```
      dlswSdlcLsLocalMac,
      dlswSdlcLsLocalSap,
      dlswSdlcLsLocalIdBlock,
      dlswSdlcLsLocalIdNum,
      dlswSdlcLsRemoteMac,
      dlswSdlcLsRemoteSap,
      dlswSdlcLsRowStatus
      }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw SDLC support."
  ::= { dlswGroups 16 }

-- ..........................................................
dlswNotificationGroup  NOTIFICATION-GROUP
  NOTIFICATIONS  {
      dlswTrapTConnPartnerReject,
      dlswTrapTConnProtViolation,

     dlswTrapTConnUp,
      dlswTrapTConnDown,
      dlswTrapCircuitUp,
      dlswTrapCircuitDown
      }
  STATUS current
  DESCRIPTION
    "Conformance group for DLSw notifications."
  ::= { dlswGroups 17 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB
No license file was found, but licenses were detected in source scan.

```
SIP-COMMON-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY,
  OBJECT-TYPE,
  NOTIFICATION-TYPE,
  Counter32,
  Gauge32,
  TimeTicks,
  Unsigned32,


  mib-2
```

```
        FROM SNMPv2-SMI            -- RFC 2578

    RowStatus,
    TimeStamp,
    TruthValue
        FROM SNMPv2-TC             -- RFC 2579

    MODULE-COMPLIANCE,
    OBJECT-GROUP,
    NOTIFICATION-GROUP
        FROM SNMPv2-CONF           -- RFC 2580

    SnmpAdminString
        FROM SNMP-FRAMEWORK-MIB    -- RFC 3411

    SipTCTransportProtocol,
    SipTCMethodName,
    SipTCEntityRole,
    SipTCOptionTagHeaders
        FROM SIP-TC-MIB            -- RFC 4780

    applIndex
        FROM NETWORK-SERVICES-MIB  -- RFC 2788

    InetPortNumber
        FROM INET-ADDRESS-MIB;     -- RFC 4001

sipCommonMIB MODULE-IDENTITY
    LAST-UPDATED "200704200000Z"
    ORGANIZATION "IETF Session Initiation Protocol Working Group"
    CONTACT-INFO
            "SIP WG email: sip@ietf.org

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    DESCRIPTION
      "Session Initiation Protocol (SIP) Common MIB module.  This
       module defines objects that may be common to all SIP entities.

        SIP is an application-layer signaling protocol for creating,
       modifying and terminating multimedia sessions with one or more
       participants.  These sessions include Internet multimedia
       conferences and Internet telephone calls.  SIP is defined in
       RFC 3261 (June 2002).

       This MIB is defined for managing objects that are common to
       SIP User Agents (UAs), Proxy, Redirect, and Registrar servers.
       Objects specific to each of these entities MAY be managed using
       entity specific MIBs defined in other modules.

       Copyright (C) The IETF Trust (2007).  This version of
       this MIB module is part of RFC 4780; see the RFC itself for
       full legal notices."
    REVISION     "200704200000Z"
    DESCRIPTION
       "Initial version of the IETF SIP-COMMON-MIB module.  This
        version published as part of RFC 4780."
     ::= { mib-2 149 }

-- Top-Level Components of this MIB.
sipCommonMIBNotifications OBJECT IDENTIFIER
 ::= { sipCommonMIB 0 }
sipCommonMIBObjects       OBJECT IDENTIFIER ::= { sipCommonMIB 1 }
sipCommonMIBConformance   OBJECT IDENTIFIER ::= { sipCommonMIB 2 }

--
-- This MIB contains objects that are common to all SIP entities.
--

-- Common basic configuration
sipCommonCfgBase       OBJECT IDENTIFIER ::= { sipCommonMIBObjects 1 }

-- Protocol timer configuration
sipCommonCfgTimer      OBJECT IDENTIFIER ::= { sipCommonMIBObjects 2 }
```

```
-- SIP message summary statistics


sipCommonSummaryStats  OBJECT IDENTIFIER ::= { sipCommonMIBObjects 3 }

-- Per method statistics
sipCommonMethodStats   OBJECT IDENTIFIER ::= { sipCommonMIBObjects 4 }

-- Per Status code or status code class statistics
sipCommonStatusCode    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 5 }

-- Transaction statistics
sipCommonStatsTrans    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 6 }

-- Method retry statistics
sipCommonStatsRetry    OBJECT IDENTIFIER ::= { sipCommonMIBObjects 7 }

-- Other statistics
sipCommonOtherStats
   OBJECT IDENTIFIER ::= { sipCommonMIBObjects 8 }

-- Accessible-for-notify objects
sipCommonNotifObjects  OBJECT IDENTIFIER ::= { sipCommonMIBObjects 9 }

--
-- Common Configuration Objects
--
sipCommonCfgTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonCfgEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the common configuration objects applicable
     to all SIP entities."
  ::= { sipCommonCfgBase 1 }

sipCommonCfgEntry OBJECT-TYPE
  SYNTAX      SipCommonCfgEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of common configuration.

      Each row represents objects for a particular SIP entity
      instance present in this system.  applIndex is used to uniquely
      identify these instances of SIP entities and correlate them
      through the common framework of the NETWORK-SERVICES-MIB (RFC
```

```
      2788)."
    INDEX { applIndex }
    ::= { sipCommonCfgTable 1
   }

SipCommonCfgEntry ::= SEQUENCE {


      sipCommonCfgProtocolVersion      SnmpAdminString,
      sipCommonCfgServiceOperStatus    INTEGER,
      sipCommonCfgServiceStartTime     TimeTicks,
      sipCommonCfgServiceLastChange    TimeTicks,
      sipCommonCfgOrganization         SnmpAdminString,
      sipCommonCfgMaxTransactions      Unsigned32,
      sipCommonCfgServiceNotifEnable   BITS,
      sipCommonCfgEntityType           SipTCEntityRole
    }

sipCommonCfgProtocolVersion OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object will reflect the version of SIP supported by this
      SIP entity.  It will follow the same format as SIP version
      information contained in the SIP messages generated by this SIP
      entity.  For example, entities supporting SIP version 2 will
      return 'SIP/2.0' as dictated by the standard."
    REFERENCE
      "RFC 3261, Section 7.1"
    ::= { sipCommonCfgEntry
   1 }

sipCommonCfgServiceOperStatus OBJECT-TYPE
    SYNTAX      INTEGER {
                  unknown(1),
                  up(2),
                  down(3),
                  congested(4),
                  restarting(5),
                  quiescing(6),
                  testing(7)
                }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object contains the current operational state of
      the SIP application.
```

```
      unknown    : The operational status cannot be determined
                   for some reason.
      up         : The application is operating normally and is
                   processing (receiving and possibly issuing) SIP
                   requests and responses.
      down       : The application is currently unable to process
                   SIP messages.
      congested  : The application is operational but no additional
                   inbound transactions can be accommodated at the
                    moment.
      restarting : The application is currently unavailable, but it
                   is in the process of restarting and will
                   presumably, soon be able to process SIP messages.
      quiescing  : The application is currently operational
                   but has been administratively put into
                   quiescence mode.  Additional inbound
                   transactions MAY be rejected.
      testing    : The application is currently in test mode
                   and MAY not be able to process SIP messages.

      The operational status values defined for this object are not
      based on any specific information contained in the SIP
      standard."
    ::= { sipCommonCfgEntry 2 }

sipCommonCfgServiceStartTime OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The value of sysUpTime at the time the SIP entity was last
      started.  If
 started prior to the last re-initialization of the
      local network management subsystem, then this object contains a
      zero value."
    ::= { sipCommonCfgEntry 3 }

sipCommonCfgServiceLastChange OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The value of sysUpTime at the time the SIP entity entered its
      current operational state.  If the current state was entered
```

```
      prior to the last re-initialization of the local network
      management subsystem, then this object contains a zero value."
   ::= { sipCommonCfgEntry 4 }

sipCommonCfgOrganization OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This object contains the organization name that the SIP entity
      inserts into Organization headers of SIP messages processed by
      this system.  If the string is empty, no Organization header is
      to be generated."




   REFERENCE
     "RFC 3261, Section 20.25"
   ::= { sipCommonCfgEntry 5 }

sipCommonCfgMaxTransactions OBJECT-TYPE
   SYNTAX      Unsigned32 (1..4294967295)
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This object indicates the maximum number of simultaneous
      transactions per second that the SIP entity can manage.  In
      general, the value of this object SHOULD reflect a level of
      transaction processing per second that is considered high
      enough to impact the system's CPU and/or memory resources to
      the point of deteriorating SIP call processing but not high
      enough to cause catastrophic system failure."
   ::= { sipCommonCfgEntry 6 }

sipCommonCfgServiceNotifEnable OBJECT-TYPE
   SYNTAX      BITS {
                 sipCommonServiceColdStart(0),
                 sipCommonServiceWarmStart(1),
                 sipCommonServiceStatusChanged(2)
               }
   MAX-ACCESS  read-write
   STATUS      current
    DESCRIPTION
     "This object specifies which SIP service related notifications
      are enabled.  Each bit represents a specific notification.  If
      a bit has a value 1, the associated notification is enabled and
      will be generated by the SIP entity at the appropriate time.
```

```
      Support for these notifications is OPTIONAL: either none or all
      notification values are supported.  If an implementation does
      not support this object, it should return a 'noSuchObject'
      exception to an SNMP GET operation.  If notifications are
      supported, this object's default value SHOULD reflect
      sipCommonServiceColdStart and sipCommonServiceWarmStart enabled
      and sipCommonServiceStatusChanged disabled.

      This object value SHOULD persist across reboots."
   DEFVAL { { sipCommonServiceColdStart,
              sipCommonServiceWarmStart } }
   ::= { sipCommonCfgEntry 7 }

sipCommonCfgEntityType OBJECT-TYPE
   SYNTAX      SipTCEntityRole
    MAX-ACCESS  read-only



   STATUS      current
   DESCRIPTION
      "This object identifies the list of SIP entities to which this
      row is related.  It is defined as a bit map.  Each bit
      represents a type of SIP entity.  If a bit has value 1, the
      SIP entity represented by this row plays the role of this
      entity type.  If a bit has value 0, the SIP entity represented
      by this row does not act as this entity type.  Combinations
      of bits can be set when the SIP entity plays multiple SIP
      roles."
   ::= { sipCommonCfgEntry 8 }

--
-- Support for multiple ports
--
sipCommonPortTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SipCommonPortEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table contains the list of ports that each SIP entity in
      this system is allowed to use.  These ports can be advertised
      using the Contact header in a REGISTER request or response."
   ::= {
 sipCommonCfgBase 2 }

sipCommonPortEntry OBJECT-TYPE
   SYNTAX      SipCommonPortEntry
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Specification of a particular port.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonPort }
  ::= { sipCommonPortTable 1 }

SipCommonPortEntry ::= SEQUENCE {
     sipCommonPort               InetPortNumber,
     sipCommonPortTransportRcv   SipTCTransportProtocol
  }

sipCommonPort OBJECT-TYPE
  SYNTAX      InetPortNumber (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current



  DESCRIPTION
    "This object reflects a particular port that can be used by the
     SIP application."
  ::= { sipCommonPortEntry 1 }

sipCommonPortTransportRcv
 OBJECT-TYPE
  SYNTAX      SipTCTransportProtocol
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object will specify the transport protocol the SIP entity
     will use to receive SIP messages.

     This object is a bit map.  Each bit represents a transport
     protocol.  If a bit has value 1, then that transport protocol
     is currently being used.  If a bit has value 0, then that
     transport protocol is currently not being used."
  ::= { sipCommonPortEntry 2 }

--
-- Support for SIP option tags (SIP extensions).
-- SIP extensions MAY be supported or required by SIP entities.
--
```

```
sipCommonOptionTagTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonOptionTagEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains a list of the SIP option tags (SIP
     extensions) that are either required, supported, or
     unsupported by the SIP entity.  These option tags are
      used in the Require, Proxy-Require, Supported, and
     Unsupported header fields.

     Example: If a user agent client supports, and requires the
     server to support, reliability of provisional responses
     (RFC 3262), this table contains a row with the option tag string
     '100rel' in sipCommonOptionTag and the OCTET STRING value of
     '1010 0000' or '0xA0' in sipCommonOptionTagHeaderField.

     If a server does not support the required feature (indicated in
     a Require header to a UAS, or in a Proxy-Require to a Proxy
     Server), the server returns a 420 Bad Extension listing the
     feature in an Unsupported header.

     Normally, the list of such features supported by an entity is
     static (i.e., will not change over time)."



  REFERENCE
    "RFC 3261, Sections 19.2, 20.32, 20.29, 20.37, and 20.40"
  ::= { sipCommonCfgBase 3 }

sipCommonOptionTagEntry OBJECT-TYPE
  SYNTAX      SipCommonOptionTagEntry
  MAX-ACCESS
 not-accessible
  STATUS      current
  DESCRIPTION
    "A particular SIP option tag (extension) supported or
     unsupported by the SIP entity, and which may be supported or
     required by a peer.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through the
     common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonOptionTagIndex }
  ::= { sipCommonOptionTagTable 1 }
```

```
SipCommonOptionTagEntry ::= SEQUENCE {
      sipCommonOptionTagIndex       Unsigned32,
      sipCommonOptionTag            SnmpAdminString,
      sipCommonOptionTagHeaderField  SipTCOptionTagHeaders
   }

sipCommonOptionTagIndex OBJECT-TYPE
   SYNTAX      Unsigned32 (1..4294967295)
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This object uniquely identifies a conceptual
 row in the table."
   ::= { sipCommonOptionTagEntry 1 }

sipCommonOptionTag OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "This object indicates the SIP option tag.  The option tag names
      are registered with IANA and available at http://www.iana.org."
   REFERENCE "RFC 3261, Section 27.1"
   ::= { sipCommonOptionTagEntry 2 }

sipCommonOptionTagHeaderField OBJECT-TYPE
   SYNTAX      SipTCOptionTagHeaders
   MAX-ACCESS  read-only
   STATUS      current



   DESCRIPTION
      "This object indicates whether the SIP option tag is supported
       (Supported header), unsupported (Unsupported header), or
       required (Require or Proxy-Require header) by the SIP entity.
       A SIP option tag may be both supported and required."
   ::= { sipCommonOptionTagEntry 3 }

--
-- Supported SIP Methods
--
sipCommonMethodSupportedTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SipCommonMethodSupportedEntry
    MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
```

"This table contains a list of methods supported by each SIP
entity in this system (see the standard set of SIP methods in
Section 7.1 of RFC 3261). Any additional methods that may be
incorporated into the SIP protocol can be represented by this
table without any requirement to update this MIB module.

The table is informational in nature and conveys capabilities
of the managed system to the SNMP Manager.

From a protocol point of view, the list of methods advertised
by the SIP entity in the Allow header (Section 20.5 of RFC
3261) MUST be consistent with the methods reflected in this
table."
::= { sipCommonCfgBase 4 }

sipCommonMethodSupportedEntry OBJECT-TYPE
SYNTAX SipCommonMethodSupportedEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A particular method supported by the SIP entity.

Each row represents those objects for a particular SIP entity
present in this system. applIndex is used to uniquely identify
these instances of SIP entities and correlate them through
the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
INDEX { applIndex, sipCommonMethodSupportedIndex }
::= { sipCommonMethodSupportedTable 1 }

SipCommonMethodSupportedEntry ::= SEQUENCE {
sipCommonMethodSupportedIndex Unsigned32,
sipCommonMethodSupportedName SipTCMethodName
}

sipCommonMethodSupportedIndex OBJECT-TYPE
SYNTAX Unsigned32 (1..4294967295)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This object uniquely identifies a conceptual row in the table
and reflects an assigned number used to identify a specific
SIP method.

This identifier is suitable for referencing the associated
method throughout this and other MIBs supported by this managed

```
        system."
    ::= { sipCommonMethodSupportedEntry 1 }

sipCommonMethodSupportedName OBJECT-TYPE
    SYNTAX      SipTCMethodName
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "This object reflects the supported method's name.  The method
        name MUST be all upper case (e.g., 'INVITE')."
::= { sipCommonMethodSupportedEntry 2 }

--
-- SIP Timer Configuration
--
sipCommonCfgTimerTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonCfgTimerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "This table contains timer configuration objects applicable to
        SIP user agent and SIP stateful Proxy Server entities."
    ::= { sipCommonCfgTimer 1 }

sipCommonCfgTimerEntry OBJECT-TYPE
    SYNTAX      SipCommonCfgTimerEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A row of timer configuration.

        Each row represents those objects for a particular SIP entity
        present
 in this system.  applIndex is used to uniquely identify
        these instances of SIP entities and correlate them through
        the common framework of the NETWORK-SERVICES-MIB (RFC 2788).
        The objects in this table entry SHOULD be non-volatile and
        their value SHOULD be kept at reboot."



    INDEX { applIndex }
    ::= { sipCommonCfgTimerTable 1 }

SipCommonCfgTimerEntry ::= SEQUENCE {
        sipCommonCfgTimerA              Unsigned32,
        sipCommonCfgTimerB              Unsigned32,
        sipCommonCfgTimerC              Unsigned32,
```

```
      sipCommonCfgTimerD            Unsigned32,
      sipCommonCfgTimerE            Unsigned32,
      sipCommonCfgTimerF            Unsigned32,
      sipCommonCfgTimerG            Unsigned32,
      sipCommonCfgTimerH            Unsigned32,
      sipCommonCfgTimerI            Unsigned32,
      sipCommonCfgTimerJ            Unsigned32,
      sipCommonCfgTimerK            Unsigned32,

   sipCommonCfgTimerT1           Unsigned32,
      sipCommonCfgTimerT2           Unsigned32,
      sipCommonCfgTimerT4           Unsigned32
   }

sipCommonCfgTimerA OBJECT-TYPE
   SYNTAX      Unsigned32 (100..1000)
   UNITS       "milliseconds"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
     "This object reflects the initial value for the retransmit timer
      for the INVITE method.  The retransmit timer doubles after each
      retransmission, ensuring an exponential backoff in network
      traffic.  This object represents the initial time a SIP entity
      will wait to receive a provisional response to an INVITE before
      resending the INVITE request."
   REFERENCE
     "RFC 3261, Section 17.1.1.2"
   DEFVAL { 500 }
   ::= { sipCommonCfgTimerEntry 1 }

sipCommonCfgTimerB OBJECT-TYPE
   SYNTAX      Unsigned32 (32000..300000)
   UNITS       "milliseconds"
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION

   "This object reflects the maximum time a SIP entity will wait to
      receive a final response to an INVITE.  The timer is started
      upon transmission of the initial INVITE request."
   REFERENCE
     "RFC 3261, Section 17.1.1.2"



   DEFVAL { 32000 }
::= { sipCommonCfgTimerEntry 2 }
```

```
sipCommonCfgTimerC OBJECT-TYPE
  SYNTAX      Unsigned32 (180000..300000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the maximum time a SIP Proxy Server will
     wait to receive a provisional response to an INVITE.  The Timer
     C MUST be set for each client transaction when an INVITE
     request is proxied."
  REFERENCE
    "RFC 3261, Section 16.6"
  DEFVAL { 180000 }
  ::= { sipCommonCfgTimerEntry 3 }

sipCommonCfgTimerD OBJECT-TYPE
  SYNTAX      Unsigned32 (0..300000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object
 reflects the amount of time that the server
     transaction can remain in the 'Completed' state when unreliable
     transports are used.  The default value MUST be equal to or
     greater than 32000 for UDP transport, and its value MUST be 0
     for TCP/SCTP transport."
  REFERENCE
    "RFC 3261, Section 17.1.1.2"
  DEFVAL { 32000 }
  ::= { sipCommonCfgTimerEntry 4 }

sipCommonCfgTimerE OBJECT-TYPE
  SYNTAX      Unsigned32 (100..1000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the initial value for the retransmit timer
     for a non-INVITE method while in 'Trying' state.  The
     retransmit timer doubles after each retransmission until it
     reaches T2 to ensure an exponential backoff in network traffic.
     This object represents the initial time a SIP entity will wait
     to receive a provisional response to the request before
     resending the non-INVITE
 request."
  REFERENCE
```

```
    "RFC 3261, Section 17.1.2.2"
  DEFVAL { 500 }
  ::= { sipCommonCfgTimerEntry 5 }

sipCommonCfgTimerF  OBJECT-TYPE
  SYNTAX      Unsigned32 (32000..300000)
  UNITS      "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the maximum time a SIP entity will wait to
     receive a final response to a non-INVITE request.  The timer is
     started upon transmission of the initial request."
  REFERENCE
    "RFC 3261, Section 17.1.2.2"
  DEFVAL { 32000 }

  ::= { sipCommonCfgTimerEntry 6 }

sipCommonCfgTimerG  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..1000)
  UNITS      "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the initial value for the retransmit timer
     for final responses to INVITE requests.  If timer G fires, the
     response is passed to the transport layer again for
     retransmission,
 and timer G is set to fire in MIN(2*T1, T2)
     seconds.  From then on, when timer G fires, the response is
     passed to the transport again for transmission, and timer G is
     reset with a value that doubles, unless that value exceeds T2,
     in which case, it is reset with the value of T2.  The default
     value MUST be T1 for UDP transport, and its value MUST be 0 for
     reliable transport like TCP/SCTP."
  REFERENCE
    "RFC 3261, Section 17.2.1"
  DEFVAL { 500 }
  ::= { sipCommonCfgTimerEntry 7 }

sipCommonCfgTimerH  OBJECT-TYPE
  SYNTAX      Unsigned32 (32000..300000)
  UNITS      "milliseconds"
  MAX-ACCESS  read-only
```

```
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a server will wait to
       receive an ACK before it abandons retransmitting the response.



       The timer is started upon entering the 'Completed' state."
    REFERENCE
      "RFC 3261, Section 17.2.1"
    DEFVAL { 32000 }
    ::=
  { sipCommonCfgTimerEntry 8 }

sipCommonCfgTimerI  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..10000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP entity will wait to
       receive additional ACK message retransmissions.

       The timer is started upon entering the 'Confirmed' state.  The
       default value MUST be T4 for UDP transport and its value MUST
       be 0 for reliable transport like TCP/SCTP."
    REFERENCE
      "RFC 3261, Section 17.2.1"
    DEFVAL { 5000 }
    ::= { sipCommonCfgTimerEntry 9 }

sipCommonCfgTimerJ  OBJECT-TYPE
    SYNTAX      Unsigned32 (32000..300000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object reflects the maximum time a SIP server will wait to
       receive retransmissions of non-INVITE requests.  The timer is
       started upon entering the 'Completed' state for non-INVITE
        transactions.  When timer J fires, the server MUST transition to
       the 'Terminated' state."
    REFERENCE
      "RFC 3261, Section 17.2.2"
    DEFVAL { 32000 }
    ::= { sipCommonCfgTimerEntry 10 }

sipCommonCfgTimerK  OBJECT-TYPE
```

```
  SYNTAX      Unsigned32 (0..10000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the maximum time a SIP client will wait to
     receive retransmissions of responses to non-INVITE requests.
     The timer is started upon entering the 'Completed' state for



     non-INVITE transactions.  When timer K fires, the server MUST
     transition to the 'Terminated' state.  The default value MUST
     be T4 for UDP transport, and its value MUST be 0 for reliable
     transport like TCP/SCTP."
  REFERENCE
    "RFC 3261, Section 17.1.2.2"
  DEFVAL { 5000 }
  ::= { sipCommonCfgTimerEntry 11 }

sipCommonCfgTimerT1  OBJECT-TYPE
  SYNTAX
 Unsigned32 (200..10000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the T1 timer for a SIP entity.  T1 is an
     estimate of the round-trip time (RTT) between the client and
     server transactions."
  REFERENCE
    "RFC 3261, Section 17"
  DEFVAL { 500 }
  ::= { sipCommonCfgTimerEntry 12 }

sipCommonCfgTimerT2  OBJECT-TYPE
  SYNTAX      Unsigned32 (200..10000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the T2 timer for a SIP entity.  T2 is the
     maximum retransmit interval for non-INVITE requests and INVITE
     responses.  It's used in various parts of the protocol to reset
     other Timer* objects to this value."
  REFERENCE
    "RFC 3261, Section 17"
  DEFVAL { 4000 }
```

```
  ::= { sipCommonCfgTimerEntry 13 }

sipCommonCfgTimerT4  OBJECT-TYPE
  SYNTAX      Unsigned32 (200..10000)
  UNITS
    "milliseconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the T4 timer for a SIP entity.  T4 is the
     maximum duration a message will remain in the network.  It
     represents the amount of time the network will take to clear
     messages between client and server transactions.  It's used in



     various parts of the protocol to reset other Timer* objects to
     this value."
  REFERENCE
    "RFC 3261, Section 17"
  DEFVAL { 5000 }
  ::= { sipCommonCfgTimerEntry 14 }

--
-- Common Statistics Objects
--

--
-- Summary Statistics
--
sipCommonSummaryStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonSummaryStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the summary statistics objects applicable
     to all SIP entities.  Each row represents those objects for a
     particular SIP entity present in this system."
  ::= {
 sipCommonSummaryStats 1 }

sipCommonSummaryStatsEntry OBJECT-TYPE
  SYNTAX      SipCommonSummaryStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of summary statistics.
```

```
      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
    INDEX { applIndex }
    ::= { sipCommonSummaryStatsTable 1 }

SipCommonSummaryStatsEntry ::= SEQUENCE {
      sipCommonSummaryInRequests         Counter32,
      sipCommonSummaryOutRequests        Counter32,
      sipCommonSummaryInResponses        Counter32,
      sipCommonSummaryOutResponses       Counter32,
      sipCommonSummaryTotalTransactions  Counter32,
      sipCommonSummaryDisconTime         TimeStamp
    }

sipCommonSummaryInRequests OBJECT-TYPE



    SYNTAX      Counter32
     MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object indicates the total number of SIP request messages
      received by the SIP entity, including retransmissions.

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can detect discontinuities in this counter by
      monitoring the sipCommonSummaryDisconTime object in the same
      row."
    ::= { sipCommonSummaryStatsEntry 1 }

sipCommonSummaryOutRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This object contains the total number of SIP request messages
      sent out (originated and relayed) by the SIP entity.  Where a
      particular message is sent more than once, for example as a
      retransmission or as a result of forking, each transmission is
      counted separately.

      Discontinuities in the value
 of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
```

```
      Station can detect discontinuities in this counter by
      monitoring the sipCommonSummaryDisconTime object in the same
      row."
  ::= { sipCommonSummaryStatsEntry 2 }

sipCommonSummaryInResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains the total number of SIP response messages
     received by the SIP entity, including retransmissions.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by
     monitoring the sipCommonSummaryDisconTime object in the same
     row."
  ::= { sipCommonSummaryStatsEntry 3 }

sipCommonSummaryOutResponses OBJECT-TYPE



  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
   DESCRIPTION
    "This object contains the total number of SIP response messages
     sent (originated and relayed) by the SIP entity including
     retransmissions.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service.  A Management
     Station can detect discontinuities in this counter by
     monitoring the sipCommonSummaryDisconTime object in the same
     row."
  ::= { sipCommonSummaryStatsEntry 4 }

sipCommonSummaryTotalTransactions OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains a count of the number of transactions that
     are in progress and transactions that have reached the
     'Terminated' state.  It is not applicable to stateless SIP Proxy
     Servers.
```

A SIP transaction occurs between a client and a server, and
comprises all messages from the first request sent from the
client to the server, up to a final (non-1xx) response sent
from the server to the client.

If the request is INVITE and the final response is a non-2xx,
the transaction also include an ACK to the response. The ACK
for a 2xx response to an INVITE request is a separate
transaction.

The branch ID parameter in the Via header field values serves
as a transaction identifier.

A transaction is identified by the CSeq sequence number within
a single call leg. The ACK request has the same CSeq number as
the corresponding INVITE request, but comprises a transaction
of its own.

In the case of a forked request, each branch counts as a single
transaction.

For a transaction stateless Proxy Server, this counter is
always 0.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management

Station can detect discontinuities in this counter by
monitoring the sipCommonSummaryDisconTime object in the same
row."
::= { sipCommonSummaryStatsEntry 5 }

sipCommonSummaryDisconTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of the sysUpTime object when the counters for the
summary statistics objects in this row last experienced a
discontinuity."
::= { sipCommonSummaryStatsEntry 6 }

--
-- SIP Method Statistics
-- Total counts for each SIP method.

```
--
sipCommonMethodStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonMethodStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the method statistics objects for SIP
     entities.  Each row represents those objects for a particular
     SIP entity present in this system."
  ::= { sipCommonMethodStats 1 }

sipCommonMethodStatsEntry OBJECT-TYPE

  SYNTAX      SipCommonMethodStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of per entity method statistics.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through
     the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonMethodStatsName }
  ::= { sipCommonMethodStatsTable 1 }

SipCommonMethodStatsEntry ::= SEQUENCE {
      sipCommonMethodStatsName   SipTCMethodName,
      sipCommonMethodStatsOutbounds    Counter32,




      sipCommonMethodStatsInbounds     Counter32,
      sipCommonMethodStatsDisconTime   TimeStamp

  }

sipCommonMethodStatsName OBJECT-TYPE
  SYNTAX      SipTCMethodName
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This object uniquely identifies the SIP method related to the

     objects in a particular row."
  ::= { sipCommonMethodStatsEntry 1 }

sipCommonMethodStatsOutbounds OBJECT-TYPE
```

```
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of requests sent by the
     SIP entity, excluding retransmissions.  Retransmissions are
     counted separately and are not reflected in this counter.  A
     Management Station can detect discontinuities in this counter
     by monitoring the sipCommonMethodStatsDisconTime object in the
     same row."
  REFERENCE
    "RFC 3261, Section 7.1"
  ::= { sipCommonMethodStatsEntry 2 }

sipCommonMethodStatsInbounds OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of requests received by
     the SIP entity.  Retransmissions are counted separately and are
     not reflected in this counter.  A Management Station
 can detect
     discontinuities in this counter by monitoring the
     sipCommonMethodStatsDisconTime object in the same row."
  REFERENCE
    "RFC 3261, Section 7.1"
  ::= { sipCommonMethodStatsEntry 3 }

sipCommonMethodStatsDisconTime  OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION




    "The value of the sysUpTime object when the counters for the
     method statistics objects in this row last experienced a
     discontinuity."
  ::= { sipCommonMethodStatsEntry 4 }

--
-- Support for specific status codes
--
sipCommonStatusCodeTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonStatusCodeEntry
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
     "This table contains the list of SIP status codes that each SIP
      entity in this system has been requested to monitor.  It is the
      mechanism by which specific status codes are monitored.
      Entries created in this table
 must not persist across reboots."
  ::= { sipCommonStatusCode 1 }

sipCommonStatusCodeEntry OBJECT-TYPE
  SYNTAX      SipCommonStatusCodeEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This row contains information on a particular SIP status code
      that the SIP entity has been requested to monitor.  Entries
      created in this table must not persist across reboots.

      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex, sipCommonStatusCodeMethod,
          sipCommonStatusCodeValue }
  ::= { sipCommonStatusCodeTable 1 }

SipCommonStatusCodeEntry ::= SEQUENCE {
      sipCommonStatusCodeMethod     SipTCMethodName,
      sipCommonStatusCodeValue      Unsigned32,
      sipCommonStatusCodeIns
       Counter32,
      sipCommonStatusCodeOuts       Counter32,
      sipCommonStatusCodeRowStatus  RowStatus,
      sipCommonStatusCodeDisconTime TimeStamp
  }

sipCommonStatusCodeMethod OBJECT-TYPE
  SYNTAX      SipTCMethodName
  MAX-ACCESS  not-accessible



  STATUS      current
  DESCRIPTION
     "This object uniquely identifies a conceptual row in the
      table."
  ::= { sipCommonStatusCodeEntry 1 }
```

```
sipCommonStatusCodeValue OBJECT-TYPE
  SYNTAX      Unsigned32 (100..999)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This object contains a SIP status code value that the SIP
     entity has been requested to monitor.  All of the other
     information in the row is related to this value."
  ::= { sipCommonStatusCodeEntry 2 }

sipCommonStatusCodeIns OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of response
 messages
     received by the SIP entity with the status code value contained
     in the sipCommonStatusCodeValue column.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service, or when the
     monitoring of the status code is temporarily disabled.  A
     Management Station can detect discontinuities in this counter
     by monitoring the sipCommonStatusCodeDisconTime object in the
     same row."
  ::= { sipCommonStatusCodeEntry 3 }

sipCommonStatusCodeOuts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of response messages sent
     by the SIP entity with the status code value contained in the
     sipCommonStatusCodeValue column.

     Discontinuities in the value of this counter can occur at
     re-initialization of the SIP entity or service, or when the
     monitoring of
 the Status code is temporarily disabled.  A
     Management Station can detect discontinuities in this counter
     by monitoring the sipCommonStatusCodeDisconTime object in the
     same row."



  ::= { sipCommonStatusCodeEntry 4 }
```

```
sipCommonStatusCodeRowStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "The row augmentation in sipCommonStatusCodeNotifTable will be
     governed by the value of this RowStatus.

     The values 'createAndGo' and 'destroy' are the only valid
     values allowed for this object.  If a row exists, it will
     reflect a status of 'active' when queried."
  ::= { sipCommonStatusCodeEntry 5 }

sipCommonStatusCodeDisconTime  OBJECT-TYPE
  SYNTAX TimeStamp
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
    "The value of the sysUpTime object when the counters for the
     status code statistics objects in this row last experienced
     a discontinuity."
   ::= { sipCommonStatusCodeEntry 6 }

--
-- Support for specific status code notifications
--

sipCommonStatusCodeNotifTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonStatusCodeNotifEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains objects to control notifications related to
     particular status codes that each SIP entity in this system has
     been requested to monitor.

     There is an entry in this table corresponding to each entry in
     sipCommonStatusCodeTable.  Therefore, this table augments
     sipCommonStatusCodeTable and utilizes the same index
     methodology.

     The objects in this table are not included directly in the
     sipCommonStatusCodeTable simply to keep the status code
     notification control objects separate from the actual status
     code statistics."
  ::= { sipCommonStatusCode 2 }
```

```
sipCommonStatusCodeNotifEntry OBJECT-TYPE
  SYNTAX
 SipCommonStatusCodeNotifEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This row contains information controlling notifications for a
     particular SIP status code that the SIP entity has been
     requested to monitor."
  AUGMENTS { sipCommonStatusCodeEntry }
  ::= { sipCommonStatusCodeNotifTable 1 }

SipCommonStatusCodeNotifEntry ::= SEQUENCE {
      sipCommonStatusCodeNotifSend         TruthValue,
      sipCommonStatusCodeNotifEmitMode     INTEGER,
      sipCommonStatusCodeNotifThresh       Unsigned32,
      sipCommonStatusCodeNotifInterval     Unsigned32
  }

sipCommonStatusCodeNotifSend OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "This object controls whether a sipCommonStatusCodeNotif is
     emitted when the status code value specified by
     sipCommonStatusCodeValue is sent or received.  If the value of
     this object is 'true', then a notification
 is sent.  If it is
     'false', no notification is sent.
     Note well that a notification MAY be emitted for every message
     sent or received that contains the particular status code.
     Depending on the status code involved, this can cause a
     significant number of notification emissions that could be
     detrimental to network performance.  Managers are forewarned to
     be prudent in the use of this object to enable notifications.
     Look to sipCommonStatusCodeNotifEmitMode for alternative
     controls for sipCommonStatusCodeNotif emissions."
  DEFVAL { false }
  ::= { sipCommonStatusCodeNotifEntry 1 }

sipCommonStatusCodeNotifEmitMode OBJECT-TYPE
  SYNTAX      INTEGER {
                normal(1),
                oneShot(2),
                triggered(3)  -- read-only
```

```
            }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION


        "The object sipCommonStatusCodeNotifSend MUST be set to 'true'
         for the values of this object to have any effect.  It is
        RECOMMENDED that the desired emit mode be established by this
        object prior to setting sipCommonStatusCodeNotifSend to 'true'.
        This object and the sipCommonStatusCodeNotifSend object can
        obviously be set independently, but their respective values
        will have a dependency on each other and the resulting
        notifications.

        This object specifies the mode for emissions of
        sipCommonStatusCodeNotif notifications.

        normal    : sipCommonStatusCodeNotif notifications will be
                    emitted by the system for each SIP response
                    message sent or received that contains the
                    desired status code.

        oneShot   : Only one sipCommonStatusCodeNotif notification
                    will be emitted.  It will be the next SIP response
                    message sent or received that contains the
                    desired
    status code.

                    No more notifications are emitted until this
                    object is set to 'oneShot' again or set to
                    'normal'.  This option is provided as a means of
                    quelling the potential promiscuous behavior that
                    can be associated with the
                    sipCommonStatusCodeNotif.

        triggered : This value is only readable and cannot be set.  It
                    reflects that the 'oneShot' case has occurred,
                    and indicates that the mode needs to be reset to
                    get further notifications.  The mode is reset by
                    setting this object to 'oneShot' or 'normal'."
    DEFVAL { oneShot }
    ::= { sipCommonStatusCodeNotifEntry 2 }

    sipCommonStatusCodeNotifThresh OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-write
```

```
    STATUS      current
    DESCRIPTION
      "This object specifies the number of response messages sent or

     received by this system that are considered excessive.  Based
      on crossing that threshold, a
      sipCommonStatusCodeThreshExceededInNotif notification or a
      sipCommonStatusCodeThreshExceededOutNotif will be sent.  The
      sipCommonStatusCodeThreshExceededInNotif and



      sipCommonStatusCodeThreshExceededOutNotif notifications can be
      used as an early warning mechanism in lieu of using
      sipCommonStatusCodeNotif.

      Note that the configuration applied by this object will be
      applied equally to inbound and outbound response messages."
    DEFVAL { 500 }
    ::= { sipCommonStatusCodeNotifEntry 3 }

  sipCommonStatusCodeNotifInterval OBJECT-TYPE
    SYNTAX      Unsigned32
    UNITS       "seconds"
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
      "This object specifies the time interval over which, if
      sipCommonStatusCodeThresh is exceeded with respect to sent or
      received messages, a sipCommonStatusCodeThreshExceededInNotif
       or sipCommonStatusCodeThreshExceededOutNotif notification will
      be sent.

      Note that the configuration applied by this object will be
      applied equally to inbound and outbound response messages."
    DEFVAL { 60 }
    ::= { sipCommonStatusCodeNotifEntry 4 }

  --
  -- Transaction Statistics
  --
  sipCommonTransCurrentTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SipCommonTransCurrentEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
      "This table contains information on the transactions currently
      awaiting definitive responses by each SIP entity in this
```

```
      system.

      This table does not apply to transaction stateless Proxy
      Servers."
  ::= { sipCommonStatsTrans 1 }

sipCommonTransCurrentEntry OBJECT-TYPE
  SYNTAX      SipCommonTransCurrentEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "Information on a particular SIP entity's current transactions.



      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex }
  ::= { sipCommonTransCurrentTable 1 }

SipCommonTransCurrentEntry ::= SEQUENCE {
      sipCommonTransCurrentactions  Gauge32
  }

sipCommonTransCurrentactions OBJECT-TYPE
  SYNTAX      Gauge32 (0..4294967295)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object contains the number of transactions awaiting
      definitive (non-1xx) response.  In the case of a forked
      request, each branch counts as a single transaction
      corresponding to the entity identified by applIndex."
::= { sipCommonTransCurrentEntry 1 }

--
-- SIP Retry Statistics
--
-- This group contains various statistics objects about
-- retransmission counts.
--
sipCommonStatsRetryTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonStatsRetryEntry
  MAX-ACCESS  not-accessible
  STATUS      current
```

```
  DESCRIPTION
    "This table contains retry statistics objects applicable to each
     SIP entity in this system."
  ::= { sipCommonStatsRetry 1 }

sipCommonStatsRetryEntry OBJECT-TYPE
  SYNTAX      SipCommonStatsRetryEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "A row of retry statistics.

     Each row represents those objects for a particular SIP entity
     present in this system.  applIndex is used to uniquely identify
     these instances of SIP entities and correlate them through the
     common framework of the NETWORK-SERVICES-MIB (RFC 2788)."



  INDEX { applIndex, sipCommonStatsRetryMethod }
  ::= { sipCommonStatsRetryTable 1 }

SipCommonStatsRetryEntry ::= SEQUENCE {
     sipCommonStatsRetryMethod           SipTCMethodName,
     sipCommonStatsRetries
       Counter32,
     sipCommonStatsRetryFinalResponses    Counter32,
     sipCommonStatsRetryNonFinalResponses Counter32,
     sipCommonStatsRetryDisconTime        TimeStamp
  }

sipCommonStatsRetryMethod OBJECT-TYPE
  SYNTAX      SipTCMethodName
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This object uniquely identifies the SIP method related to the
     objects in a row."
  ::= { sipCommonStatsRetryEntry 1 }

sipCommonStatsRetries OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of request
     retransmissions that have been sent by the SIP entity.  Note
     that there could be multiple retransmissions per request.
```

```
      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can detect discontinuities in this counter by
      monitoring
 the sipCommonStatsRetryDisconTime object in the same
      row."
  ::= { sipCommonStatsRetryEntry 2 }

sipCommonStatsRetryFinalResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of Final Response retries
      that have been sent by the SIP entity.  Note that there could
      be multiple retransmissions per request.

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can detect discontinuities in this counter by




      monitoring the sipCommonStatsRetryDisconTime object in the same
      row."
  ::= { sipCommonStatsRetryEntry 3 }

sipCommonStatsRetryNonFinalResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "This object reflects the total number of non-Final Response
      retries that
 have been sent by the SIP entity.

      Discontinuities in the value of this counter can occur at
      re-initialization of the SIP entity or service.  A Management
      Station can detect discontinuities in this counter by
      monitoring the sipCommonStatsRetryDisconTime object in the same
      row."
  ::= { sipCommonStatsRetryEntry 4 }

sipCommonStatsRetryDisconTime  OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
     "The value of the sysUpTime object when the counters for the
      retry statistics objects in this row last experienced a
      discontinuity."
  ::= { sipCommonStatsRetryEntry 5 }

--
-- Other Common Statistics
--
sipCommonOtherStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF SipCommonOtherStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "This table contains other common statistics supported by each
      SIP entity in this system."
  ::= {
 sipCommonOtherStats 1 }

sipCommonOtherStatsEntry OBJECT-TYPE
  SYNTAX      SipCommonOtherStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Information on a particular SIP entity's other common
      statistics.



      Each row represents those objects for a particular SIP entity
      present in this system.  applIndex is used to uniquely identify
      these instances of SIP entities and correlate them through
      the common framework of the NETWORK-SERVICES-MIB (RFC 2788)."
  INDEX { applIndex }
  ::= { sipCommonOtherStatsTable 1 }

SipCommonOtherStatsEntry ::= SEQUENCE {
      sipCommonOtherStatsNumUnsupportedUris     Counter32,
      sipCommonOtherStatsNumUnsupportedMethods  Counter32,
      sipCommonOtherStatsOtherwiseDiscardedMsgs Counter32,
      sipCommonOtherStatsDisconTime   TimeStamp
  }

sipCommonOtherStatsNumUnsupportedUris OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS
```

current
DESCRIPTION
"Number of RequestURIs received with an unsupported scheme.
A server normally responds to such requests with a 400 Bad
Request status code.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonOtherStatsDisconTime object in the same
row."
::= { sipCommonOtherStatsEntry 1 }

sipCommonOtherStatsNumUnsupportedMethods OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of SIP requests received with unsupported methods. A
server normally responds to such requests with a 501 (Not
Implemented) or 405 (Method Not Allowed).

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can
detect discontinuities in this counter by
monitoring the sipCommonOtherStatsDisconTime object in the same
row."
::= { sipCommonOtherStatsEntry 2 }

sipCommonOtherStatsOtherwiseDiscardedMsgs OBJECT-TYPE
SYNTAX Counter32

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Number of SIP messages received that, for any number of
reasons, was discarded without a response.

Discontinuities in the value of this counter can occur at
re-initialization of the SIP entity or service. A Management
Station can detect discontinuities in this counter by
monitoring the sipCommonOtherStatsDisconTime object in the same
row."
::= { sipCommonOtherStatsEntry 3 }

```
sipCommonOtherStatsDisconTime OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The value of the sysUpTime object when the counters for the
      statistics objects in this row last
 experienced a
      discontinuity."
  ::= { sipCommonOtherStatsEntry 4 }

--
-- Notification related objects
--

--
-- Status code related notification objects.
--
sipCommonStatusCodeNotifTo OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "This object contains the value of the To header in the message
      containing the status code that caused the notification.  The
      header name will be part of this object value.  For example,
      'To: Watson '."
  ::= { sipCommonNotifObjects 1 }

sipCommonStatusCodeNotifFrom OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
     "This object contains the value of the From header in the
      message containing the status code that caused the



      notification.  The header name will be part of this object
      value.  For example, 'From: Watson '."
  ::= { sipCommonNotifObjects
 2 }

sipCommonStatusCodeNotifCallId OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  accessible-for-notify
  STATUS      current
```

```
  DESCRIPTION
    "This object contains the value of the Call-ID in the message
     containing the status code that caused the notification.  The
     header name will be part of this object value.  For example,
     'Call-ID: 5551212@example.com'."
  ::= { sipCommonNotifObjects 3 }

sipCommonStatusCodeNotifCSeq OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the CSeq value in the message containing
     the status code that caused the notification.  The header name
     will be part of this object value.  For example, 'CSeq: 1722
     INVITE'."
  ::= { sipCommonNotifObjects 4 }

--
-- General notification related objects.
--
sipCommonNotifApplIndex OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)

 MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains the applIndex as described in RFC 2788.
     This object is created in order to allow a variable binding
     containing a value of applIndex in a notification."
  ::= { sipCommonNotifObjects 5 }

sipCommonNotifSequenceNumber OBJECT-TYPE
  SYNTAX      Unsigned32 (1..2147483647)
  MAX-ACCESS  accessible-for-notify
  STATUS      current
  DESCRIPTION
    "This object contains a sequence number for each notification
     generated by this SIP entity.  Each notification SHOULD have a
     unique sequence number.  A network manager can use this
     information to determine whether notifications from a



     particular SIP entity have been missed.  The value of this
     object MUST start at 1 and increase by 1 with each generated
     notification.  If a system restarts, the sequence number MAY
     start again from 1."
```

```
  ::= { sipCommonNotifObjects
 6 }

--
-- Notifications
--
sipCommonStatusCodeNotif NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonStatusCodeNotifTo,
    sipCommonStatusCodeNotifFrom,
    sipCommonStatusCodeNotifCallId,
    sipCommonStatusCodeNotifCSeq,
    sipCommonStatusCodeIns,
    sipCommonStatusCodeOuts
  }
  STATUS      current
  DESCRIPTION
    "Signifies that a specific status code has been sent or received
     by the system."
  ::= { sipCommonMIBNotifications 1 }

sipCommonStatusCodeThreshExceededInNotif NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonStatusCodeIns
  }
  STATUS      current
  DESCRIPTION
    "Signifies that a specific status code was found to have been
     received by the system frequently enough to exceed the
     configured threshold.  This notification can be used as
     an early warning mechanism
 in lieu of using
     sipCommonStatusCodeNotif."
  ::= { sipCommonMIBNotifications 2 }

sipCommonStatusCodeThreshExceededOutNotif NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonStatusCodeOuts
  }
  STATUS      current
```

```
  DESCRIPTION
    "Signifies that a specific status code was found to have been
     sent by the system enough to exceed the configured threshold.
     This notification can be used as an early warning mechanism in
     lieu of using sipCommonStatusCodeNotif."
  ::= { sipCommonMIBNotifications 3 }

sipCommonServiceColdStart NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceStartTime
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service has reinitialized itself or
     started for the first time.  This SHOULD result from a hard
     'down' to 'up' administrative status
 change.  The configuration
     or behavior of the service MAY be altered."
  ::= { sipCommonMIBNotifications 4 }

sipCommonServiceWarmStart NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceLastChange
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service has reinitialized itself and is
     restarting after an administrative 'reset'.  The configuration
     or behavior of the service MAY be altered."
  ::= { sipCommonMIBNotifications 5 }

sipCommonServiceStatusChanged NOTIFICATION-TYPE
  OBJECTS {
    sipCommonNotifSequenceNumber,
    sipCommonNotifApplIndex,
    sipCommonCfgServiceLastChange,
    sipCommonCfgServiceOperStatus
  }
  STATUS      current
  DESCRIPTION
    "Signifies that the SIP service operational status has changed."
  ::= { sipCommonMIBNotifications 6 }
```

```
--
-- Conformance



--
sipCommonMIBCompliances
  OBJECT IDENTIFIER
 ::= { sipCommonMIBConformance 1 }
sipCommonMIBGroups
  OBJECT IDENTIFIER ::= { sipCommonMIBConformance 2 }

--
-- Compliance Statements
--
sipCommonCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
    "The compliance statement for SIP entities."

  MODULE -- this module
     MANDATORY-GROUPS { sipCommonConfigGroup,
                        sipCommonStatsGroup
                      }

  OBJECT       sipCommonStatusCodeRowStatus
  SYNTAX       RowStatus { active(1) }
  WRITE-SYNTAX RowStatus { createAndGo(4), destroy(6) }
  DESCRIPTION
    "Support for createAndWait and notInService is not required."

  OBJECT       sipCommonCfgServiceNotifEnable
  MIN-ACCESS   not-accessible
  DESCRIPTION
    "This object is optional and does not need to be supported."

  GROUP        sipCommonInformationalGroup
  DESCRIPTION
    "This group is OPTIONAL.  A SIP entity can elect to not provide
     any support for these objects, as they
 provide optional
     information."

  GROUP        sipCommonConfigTimerGroup
  DESCRIPTION
    "This group is OPTIONAL.  A SIP entity can elect to not provide
     any timer configuration."
```

```
  GROUP       sipCommonStatsRetryGroup
  DESCRIPTION
    "This group is OPTIONAL.  A SIP entity can elect to not provide
     any retry statistics."

  GROUP       sipCommonNotifGroup
  DESCRIPTION



    "This group is OPTIONAL.  A SIP entity can elect to not provide
     any notifications.  If implemented, the
     sipCommonStatusCodeNotifGroup and sipCommonNotifObjectsGroup
     MUST also be implemented."

  GROUP       sipCommonStatusCodeNotifGroup
  DESCRIPTION
    "This group is OPTIONAL.  A SIP entity can elect to not provide
     any notifications.  If implemented, the sipCommonNotifGroup and
     sipCommonNotifObjectsGroup MUST also be implemented."

  GROUP       sipCommonNotifObjectsGroup
  DESCRIPTION
    "This group is
 OPTIONAL.  A SIP entity can elect to not provide
     any notifications.  If implemented, the
     sipCommonStatusCodeNotifGroup and sipCommonNotifGroup MUST also
     be implemented."

  ::= { sipCommonMIBCompliances 1 }

--
-- Units of Conformance
--
sipCommonConfigGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgProtocolVersion,
        sipCommonCfgServiceOperStatus,
        sipCommonCfgServiceStartTime,
        sipCommonCfgServiceLastChange,
        sipCommonPortTransportRcv,
        sipCommonOptionTag,
        sipCommonOptionTagHeaderField,
        sipCommonCfgMaxTransactions,
        sipCommonCfgServiceNotifEnable,
        sipCommonCfgEntityType,
        sipCommonMethodSupportedName
  }
```

```
  STATUS  current
  DESCRIPTION
    "A collection of objects providing configuration common to all
     SIP entities."
  ::= { sipCommonMIBGroups 1 }

sipCommonInformationalGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgOrganization
   }
  STATUS  current



  DESCRIPTION
    "A collection of objects providing configuration common to all
     SIP entities."
  ::= { sipCommonMIBGroups 2 }

sipCommonConfigTimerGroup OBJECT-GROUP
  OBJECTS {
        sipCommonCfgTimerA,
        sipCommonCfgTimerB,
        sipCommonCfgTimerC,
        sipCommonCfgTimerD,
        sipCommonCfgTimerE,
        sipCommonCfgTimerF,
        sipCommonCfgTimerG,
        sipCommonCfgTimerH,
        sipCommonCfgTimerI,
        sipCommonCfgTimerJ,
        sipCommonCfgTimerK,
        sipCommonCfgTimerT1,
        sipCommonCfgTimerT2,
        sipCommonCfgTimerT4
  }
  STATUS  current
  DESCRIPTION
    "A collection of objects providing timer configuration common to
     all SIP entities."
  ::= { sipCommonMIBGroups 3 }

sipCommonStatsGroup OBJECT-GROUP
  OBJECTS {
        sipCommonSummaryInRequests,
        sipCommonSummaryOutRequests,
```

```
        sipCommonSummaryInResponses,
        sipCommonSummaryOutResponses,
        sipCommonSummaryTotalTransactions,
        sipCommonSummaryDisconTime,
        sipCommonMethodStatsOutbounds,
        sipCommonMethodStatsInbounds,
        sipCommonMethodStatsDisconTime,
        sipCommonStatusCodeIns,
        sipCommonStatusCodeOuts,
        sipCommonStatusCodeRowStatus,
        sipCommonStatusCodeDisconTime,
        sipCommonTransCurrentactions,
        sipCommonOtherStatsNumUnsupportedUris,
        sipCommonOtherStatsNumUnsupportedMethods,
        sipCommonOtherStatsOtherwiseDiscardedMsgs,
        sipCommonOtherStatsDisconTime



  }
  STATUS  current
  DESCRIPTION
    "A collection of objects providing statistics common to all SIP
     entities."
  ::= { sipCommonMIBGroups 4 }

sipCommonStatsRetryGroup OBJECT-GROUP
  OBJECTS {
         sipCommonStatsRetries,
         sipCommonStatsRetryFinalResponses,
          sipCommonStatsRetryNonFinalResponses,
         sipCommonStatsRetryDisconTime
  }
  STATUS  current
  DESCRIPTION
    "A collection of objects providing retry statistics."
  ::= { sipCommonMIBGroups 5 }

sipCommonNotifGroup NOTIFICATION-GROUP
  NOTIFICATIONS {
         sipCommonStatusCodeNotif,
         sipCommonStatusCodeThreshExceededInNotif,
         sipCommonStatusCodeThreshExceededOutNotif,
         sipCommonServiceColdStart,
         sipCommonServiceWarmStart,
         sipCommonServiceStatusChanged
  }
```

```
  STATUS  current
  DESCRIPTION
    "A collection of notifications common to all SIP entities."
  ::= { sipCommonMIBGroups 6 }

sipCommonStatusCodeNotifGroup OBJECT-GROUP
  OBJECTS {
        sipCommonStatusCodeNotifSend,
        sipCommonStatusCodeNotifEmitMode,
        sipCommonStatusCodeNotifThresh,
        sipCommonStatusCodeNotifInterval
  }
  STATUS  current
  DESCRIPTION
    "A collection of
 objects related to the control and attribution
     of notifications common to all SIP entities."
  ::= { sipCommonMIBGroups 7 }

sipCommonNotifObjectsGroup OBJECT-GROUP



  OBJECTS {
        sipCommonStatusCodeNotifTo,
        sipCommonStatusCodeNotifFrom,
        sipCommonStatusCodeNotifCallId,
        sipCommonStatusCodeNotifCSeq,
        sipCommonNotifApplIndex,
        sipCommonNotifSequenceNumber
  }
  STATUS  current
  DESCRIPTION
    "A collection of accessible-for-notify objects related to the
     notification defined in this MIB module."
  ::= { sipCommonMIBGroups 8 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-COMMON-MIB
No license file was found, but licenses were detected in source scan.

RMON2-MIB DEFINITIONS ::= BEGIN
IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, Counter32, Integer32,
  Gauge32, IpAddress, TimeTicks, mib-2        FROM SNMPv2-SMI
  TEXTUAL-CONVENTION, RowStatus, DisplayString, TimeStamp
```

```
                                FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP          FROM SNMPv2-CONF
  ifIndex                                  FROM IF-MIB
  OwnerString, statistics, history, hosts,
  matrix, filter, etherStatsEntry, historyControlEntry,
  hostControlEntry, matrixControlEntry, filterEntry,
  channelEntry                 FROM RMON-MIB
  tokenRing, tokenRingMLStatsEntry, tokenRingPStatsEntry,




  ringStationControlEntry, sourceRoutingStatsEntry
                           FROM TOKEN-RING-RMON-MIB;
--  Remote Network Monitoring MIB

rmon MODULE-IDENTITY
  LAST-UPDATED "200605020000Z"    -- May 2, 2006
  ORGANIZATION "IETF RMON
 MIB Working Group"
  CONTACT-INFO
     "Author:
             Steve Waldbusser
        Phone:  +1-650-948-6500
        Fax :   +1-650-745-0671
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      Working Group Chair:
             Andy Bierman
        E-mail: ietf@andybierman.com

      Working Group Mailing List: <rmonmib@ietf.org>
      To subscribe send email to: <rmonmib-request@ietf.org>    "
  DESCRIPTION
     "The MIB module for managing remote monitoring
      device implementations.  This MIB module
      extends the architecture introduced in the original
      RMON MIB as specified in RFC 2819.

      Copyright (C) The Internet Society (2006).  This version of
      this MIB module is part of RFC 4502;  see the RFC itself for
      full legal notices."

  REVISION "200605020000Z"    -- May 2, 2006
  DESCRIPTION
     "This version updates the proposed-standard version of the
     RMON2 MIB (published
 as RFC 2021) by adding 2 new
     enumerations to the nlMatrixTopNControlRateBase object and
```

4 new enumerations to the alMatrixTopNControlRateBase object. These new enumerations support the creation of high-capacity topN reports in the High Capacity RMON MIB [RFC3273].

Additionally, the following objects have been deprecated, as they have not had enough independent implementations to demonstrate interoperability to meet the requirements of a Draft Standard:

probeDownloadFile
probeDownloadTFTPServer
probeDownloadAction
probeDownloadStatus

serialMode
serialProtocol
serialTimeout
serialModemInitString
serialModemHangUpString
serialModemConnectResp
serialModemNoConnectResp
serialDialoutTimeout
serialStatus
serialConnectDestIpAddress
serialConnectType
serialConnectDialString
serialConnectSwitchConnectSeq
serialConnectSwitchDisconnectSeq
serialConnectSwitchResetSeq
serialConnectOwner
serialConnectStatus
netConfigIPAddress
netConfigSubnetMask
netConfigStatus
netDefaultGateway
tokenRingMLStats2DroppedFrames
tokenRingMLStats2CreateTime
tokenRingPStats2DroppedFrames
tokenRingPStats2CreateTime
ringStationControl2DroppedFrames
ringStationControl2CreateTime
sourceRoutingStats2DroppedFrames
sourceRoutingStats2CreateTime
trapDestIndex
trapDestCommunity
trapDestProtocol

trapDestAddress
trapDestOwner
trapDestStatus

In addition, two corrections were made. The LastCreateTime Textual Convention had been defined with a base type of another textual convention, which isn't allowed in SMIv2. The definition has been modified to use TimeTicks as the base type.

Further,
the SerialConfigEntry SEQUENCE definition included sub-typing information that is not allowed in SMIv2. This information has been deleted. Ranges were added to a number of objects and textual-conventions to constrain their maximum (and sometimes minimum) sizes. The addition of these ranges documents existing practice for these objects. These objects

are:
ControlString
protocolDirID
protocolDirParameters
addressMapNetworkAddress
nlHostAddress
nlMatrixSDSourceAddress
nlMatrixSDDestAddress
nlMatrixDSSourceAddress
nlMatrixDSDestAddress
nlMatrixTopNSourceAddress
nlMatrixTopNDestAddress
alHostEntry
alMatrixSDEntry
alMatrixDSEntry
alMatrixTopNSourceAddress
alMatrixTopNDestAddress

Finally, the TimeFilter TC has been updated to encourage agent implementations that allow a MIB walk to behave well even when performed by an application that is not aware of the special TimeFilter semantics."

REVISION "200207080000Z" -- 08 July, 2002
DESCRIPTION
"Added new enumerations to support the High-Capacity RMON MIB as defined in RFC 3273. Also fixed some typos and added clarifications."

```
  REVISION "199605270000Z"    -- 27 May, 1996
  DESCRIPTION
     "Original version.  Published as RFC 2021."
  ::= { mib-2 16 }

-- { rmon 1 } through { rmon 10 } are defined in RMON and
-- the Token Ring RMON MIB [RFC1513]

  protocolDir     OBJECT IDENTIFIER ::= { rmon 11 }
  protocolDist    OBJECT IDENTIFIER ::= { rmon 12 }
  addressMap      OBJECT IDENTIFIER ::= { rmon 13 }
  nlHost          OBJECT IDENTIFIER ::= { rmon 14 }
  nlMatrix        OBJECT IDENTIFIER ::= { rmon 15 }
  alHost          OBJECT IDENTIFIER ::= { rmon 16 }
  alMatrix        OBJECT IDENTIFIER
::= { rmon 17 }
  usrHistory      OBJECT IDENTIFIER ::= { rmon 18 }
  probeConfig     OBJECT IDENTIFIER ::= { rmon 19 }
  rmonConformance OBJECT IDENTIFIER ::= { rmon 20 }




-- Textual Conventions

ZeroBasedCounter32 ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
     "This TC describes an object that counts events with the
     following semantics: objects of this type will be set to
     zero(0) on creation and will thereafter count appropriate
     events, wrapping back to zero(0) when the value 2^32 is
     reached.

     Provided that an application discovers the new object within
     the minimum time to wrap, it can use the initial value as a
     delta since it last polled the table of which this object is
     part.  It is important for a management station to be aware of
     this minimum time and the actual time between polls, and to
     discard data if the actual time is too long or there is no
     defined minimum time.

      Typically, this TC is used in tables where the INDEX space is
     constantly changing and/or the TimeFilter mechanism is in use."
  SYNTAX Gauge32

LastCreateTime ::= TEXTUAL-CONVENTION
```

```
  STATUS current
  DESCRIPTION
      "This TC describes an object that stores the value of the
      sysUpTime object at the last time its entry was created.

      This can be used for polling applications to determine that an
      entry has been deleted and re-created between polls, causing
      an otherwise undetectable discontinuity in the data.

      If sysUpTime is reset to zero as a result of a re-
      initialization of the network management (sub)system, then
      the values of all LastCreateTime objects are also reset.
      However, after approximately 497 days without a re-
      initialization, the sysUpTime object will reach 2^^32-1 and
      then increment to zero; in this case, existing values
      of TimeStamp objects do not change.
  This can lead to
      ambiguities in the value of TimeStamp objects."
  SYNTAX TimeTicks

TimeFilter ::= TEXTUAL-CONVENTION
 STATUS       current
 DESCRIPTION
     "To be used for the index to a table.  Allows an application
     to download only those rows changed since a particular time.



     Note that this is not a history mechanism.  Only current values
     of underlying objects are returned; saved instance values
     associated with particular values of sysUpTime are not.

     An entry is considered changed if the value of any object in the
     entry changes, if the row is created, or if any object in the
     entry is created or deleted.  Note that deleted entries cannot
     be detected or downloaded.

     A time-filtered conceptual table is created by inserting a
     single object of SYNTAX TimeFilter as the first INDEX component
     in a copy of an existing basic conceptual table (i.e., any
     SEQUENCE without a TimeFilter INDEX component).  Thus,
  for
     each conceptual entry 'I' in the basic table, there exists N
     conceptual entries in the time-filtered version, indexed N.I,
     where 'N' is equal to the value of sysUpTime.

     When an application retrieves conceptual instances from a
     time-filtered table, and an INDEX value is provided for the
```

TimeFilter INDEX component 'N', the agent will only consider returning basic conceptual entries (e.g., 'fooColumn.N.I') if any column within the basic conceptual entry has changed since sysUpTime 'N'. If not, the basic conceptual entry will be ignored for the particular retrieval operation.

When sysUpTime is equal to zero, this table shall be empty.

One conceptual entry exists for each past value of sysUpTime, except that the whole table is purged should sysUpTime wrap.

As an entry in a time-filtered table is updated (i.e., one of the columns in the basic conceptual table is changed), new conceptual
entries are also created in the time-filtered version (which still shares the now updated object values with all other instances). The number of unique time-filtered instances that are created is determined by the value of sysUpTime at which the basic entry was last updated. One unique instance will exist for each value of sysUpTime at the last update time for the row. However, a new TimeFilter index instance is created for each new sysUpTime value. The TimeFilter index values not associated with entry updates are called duplicate time-filtered instances.

After some deployment experience, it has been determined that a time-filtered table is more efficient if the agent stops a MIB walk operation by skipping over rows with a TimeFilter index value higher than the value in the received GetNext/GetBulk request. That is, instead of incrementing a TimeFilter index value, the agent will continue to the
next

object or table. As a consequence, GetNext or GetBulk operations will provide only one pass through a time-filtered table.

It is suggested that an agent implement a time-filtered table in this manner to improve performance and avoid a MIB walk getting stuck in time-filtered tables. It is, however, still acceptable for an agent to implement a time-filtered table in the traditional manner (i.e., every conceptual time-filtered instance is returned in GetNext and GetBulk PDU responses), and management applications must be able to deal with such traditional implementations.

See the appendix for further discussion of this textual

convention.

The following example is provided to demonstrate TimeFilter behavior:

Consider the following basic conceptual table, basicFooTable. (Note that the basic version of a time-filtered table may not actually be defined.)

```
basicFooTable:

 basicFooTable ...
INDEX { fooIndex }

BasicFooEntry {
  fooIndex     Integer32,
  fooCounts    Counter32
}
```

For this example, the basicFooTable contains two static conceptual entries (fooIndex equals '1' and '2'), created at time zero. It also contains one dynamic conceptual entry (fooIndex equals '3'), which is created at time '3' and deleted at time '7'.

The time-filtered version of the basicFooTable could be defined as follows:

```
FooTable:

fooTable ...
INDEX { fooTimeMark, fooIndex }

FooEntry {



  fooTimeMark  TimeFilter,
  fooIndex     Integer32,
  fooCounts    Counter32
}
```

Note that entries exist in the time-filtered conceptual table only if they actually exist in the underlying (basic) table.

For this example, the fooTable will have three underlying basic

entries (fooIndex == 1, 2, and 3), with the following
activity (for sysUpTime equal 0 to 9):

- fooEntry.N.1 is created at time '0' and most recently updated at time '6' to the value '5'.
- fooEntry.N.2 is created at time '0' and most recently updated at time '8' to the value '9'.
- fooEntry.N.3 is created at time '3', updated at time '5' to the value '17', and deleted at time '7'.

The following tables show the values that would be returned for MIB walk operations with various TimeFilter values, done at different times. An application issues a retrieval request at time 'T', with a TimeFilter value, 'N' (typically set to a lower value, such as the value of sysUpTime at the last polling cycle).

The following values would be returned in a MIB walk of fooCounts.N if T equals '0' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0

Note that nothing is returned for fooCounts.0.3, since that entry does not exist at sysUpTime equals '0'.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '3' and N equals '0':

fooCounts.N.I	Value
fooCounts.0.1	0
fooCounts.0.2	0
fooCounts.0.3	0
fooCounts.1.3	0
fooCounts.2.3	0
fooCounts.3.3	0

Note that there are no instances for T equals 1 or 2 for the first two values of N, as these entries did not change since they were created at time '0'.

Note that the current value for 'fooCounts.N.3' is returned here, even for values of N less than '3' (when the entry was

created). The agent only considers the current existence of an entry in the TimeFilter algorithm, not the time when the entry

was created.

Note that the instances 'fooCounts.0.3', 'fooCounts.1.3', and 'fooCounts.2.3' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '6' and N equals '3':

fooCounts.N.I	Value
fooCounts.3.1	5
fooCounts.3.3	17
fooCounts.4.1	5
fooCounts.4.3	17
fooCounts.5.1	5
fooCounts.5.3	17
fooCounts.6.1	5

Note that no instances for entry 'fooCounts.N.2' are returned, since it has not changed since time '3'.

Note that all instances except 'fooCounts.5.3' and 'fooCounts.6.1' are duplicates and can be suppressed by the agent in a MIB walk.

The following values would be returned in a full (traditional) MIB walk of fooCounts.N if T equals '9' and N equals '6':

fooCounts.N.I	Value
fooCounts.6.1	5
fooCounts.6.2	9
fooCounts.7.2	9
fooCounts.8.2	9

Note that no instances for entry 'fooCounts.N.3' are returned, since it was deleted at time '7'.

Note that instances 'fooCounts.6.2' and 'fooCounts.7.2'

are duplicates and can be suppressed by the agent in a MIB

walk."

SYNTAX TimeTicks

DataSource ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"Identifies the source of the data that the associated
function is configured to analyze. This source can be any
interface on this device.

In order to identify a particular interface, this
object shall identify the instance of the ifIndex
object, defined in [RFC2863], for the desired interface.

For example, if an entry were to receive data from
interface #1, this object
would be set to ifIndex.1."
SYNTAX OBJECT IDENTIFIER

--
-- Protocol Directory Group
--
-- Lists the inventory of protocols the probe has the capability of
-- monitoring and allows the addition, deletion, and configuration of
-- entries in this list.

protocolDirLastChange OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime at the time the protocol directory
was last modified, either through insertions or deletions,
or through modifications of the
protocolDirAddressMapConfig, protocolDirHostConfig, or
protocolDirMatrixConfig."
::= { protocolDir 1 }

protocolDirTable OBJECT-TYPE
SYNTAX SEQUENCE OF ProtocolDirEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"This table lists the protocols that this agent has the
capability to decode and count. There is one entry in this
table for each such protocol.

```
  These protocols represent
      different network-layer, transport-layer, and higher-layer



      protocols.  The agent should boot up with this table
      preconfigured with those protocols that it knows about and
      wishes to monitor.  Implementations are strongly encouraged to
      support protocols higher than the network layer (at least for
      the protocol distribution group), even for implementations
      that don't support the application-layer groups."
   ::= { protocolDir 2 }

protocolDirEntry OBJECT-TYPE
   SYNTAX      ProtocolDirEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A conceptual row in the protocolDirTable.

       An example of the indexing of this entry is
       protocolDirLocalIndex.8.0.0.0.1.0.0.8.0.2.0.0, which is the
       encoding of a length of 8, followed by 8 subids encoding the
       protocolDirID of 1.2048, followed by a length of 2 and the
       2 subids encoding zero-valued
 parameters.

       Note that some combinations of index values may result in an
       index that exceeds 128 sub-identifiers in length, which exceeds
       the maximum for the SNMP protocol.  Implementations should take
       care to avoid such combinations."
   INDEX { protocolDirID, protocolDirParameters }
   ::= { protocolDirTable  1 }

ProtocolDirEntry ::= SEQUENCE {
   protocolDirID                OCTET STRING,
   protocolDirParameters        OCTET STRING,
   protocolDirLocalIndex        Integer32,
   protocolDirDescr             DisplayString,
   protocolDirType              BITS,
   protocolDirAddressMapConfig  INTEGER,
   protocolDirHostConfig        INTEGER,
   protocolDirMatrixConfig      INTEGER,
   protocolDirOwner             OwnerString,
   protocolDirStatus            RowStatus
}

protocolDirID OBJECT-TYPE
```

```
  SYNTAX      OCTET STRING  (SIZE (4..128))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A unique identifier for a particular protocol.  Standard
      identifiers will be defined in such a manner that they




      can often be used as specifications for new protocols - i.e.,
      a tree-structured assignment mechanism that matches the
      protocol encapsulation 'tree' and that has algorithmic
      assignment mechanisms for certain subtrees.  See RFC 2074 for
      more details.

      Despite the algorithmic mechanism, the probe will only place
      entries in here for those protocols it chooses to collect.  In
      other words, it need not populate this table with all
      possible ethernet protocol types, nor need it create them on
      the fly when it sees them.  Whether it does these
      things is a matter of product definition (cost/benefit,
      usability) and is up to the designer of the product.

      If an entry is written to this table with a protocolDirID that
      the agent doesn't understand, either
 directly or
      algorithmically, the SET request will be rejected with an
      inconsistentName or badValue (for SNMPv1) error."
  ::= { protocolDirEntry 1 }

protocolDirParameters OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE (1..32))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A set of parameters for the associated protocolDirID.
      See the associated RMON2 Protocol Identifiers document
      for a description of the possible parameters.  There
      will be one octet in this string for each sub-identifier in
      the protocolDirID, and the parameters will appear here in the
      same order as the associated sub-identifiers appear in the
      protocolDirID.

      Every node in the protocolDirID tree has a different, optional
      set of parameters defined (that is, the definition of
      parameters for a node is optional).  The proper parameter
      value for each node is included in this string.  Note that
```

the
inclusion of a parameter value in this string for each node is
not optional. What is optional is that a node may have no
parameters defined, in which case the parameter field for that
node will be zero."
::= { protocolDirEntry 2 }

protocolDirLocalIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS read-only
STATUS current
DESCRIPTION

"The locally arbitrary but unique identifier associated
with this protocolDir entry.

The value for each supported protocol must remain constant at
least from one re-initialization of the entity's network
management system to the next re-initialization, except that
if a protocol is deleted and re-created, it must be re-created
with a new value that has not been used since the last
re-initialization.

The specific value is meaningful only within a given SNMP
entity. A protocolDirLocalIndex must not
be re-used until the
next agent restart in the event that the protocol directory
entry is deleted."
::= { protocolDirEntry 3 }

protocolDirDescr OBJECT-TYPE
SYNTAX DisplayString (SIZE (1..64))
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"A textual description of the protocol encapsulation.
A probe may choose to describe only a subset of the
entire encapsulation (e.g., only the highest layer).

This object is intended for human consumption only.

This object may not be modified if the associated
protocolDirStatus object is equal to active(1)."
::= { protocolDirEntry 4 }

protocolDirType OBJECT-TYPE

```
  SYNTAX      BITS {
                extensible(0),
                addressRecognitionCapable(1)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "This object describes 2 attributes of this protocol
      directory entry.


The presence or absence of the 'extensible' bit describes
      whether this protocol directory entry can be extended
      by the user by creating protocol directory entries that are
      children of this protocol.

      An example of an entry that will often allow extensibility is



      'ip.udp'.  The probe may automatically populate some children
      of this node, such as 'ip.udp.snmp' and 'ip.udp.dns'.
      A probe administrator or user may also populate additional
      children via remote SNMP requests that create entries in this
      table.  When a child node is added for a protocol for which the
      probe has no built-in support extending a parent node (for
      which the probe does have built-in support),
      that child node is not extendable.  This is termed 'limited
      extensibility'.

      When a child node is added through this extensibility
      mechanism, the values of protocolDirLocalIndex and
      protocolDirType
shall be assigned by the agent.

      The other objects in the entry will be assigned by the
      manager who is creating the new entry.

      This object also describes whether this agent can
      recognize addresses for this protocol, should it be a
      network-level protocol.  That is, while a probe may be able
      to recognize packets of a particular network-layer protocol
      and count them, it takes additional logic to be able to
      recognize the addresses in this protocol and to populate
      network-layer or application-layer tables with the addresses
      in this protocol.  If this bit is set, the agent will
      recognize network-layer addresses for this protocol and
      populate the network- and application-layer host and matrix
```

tables with these protocols.

Note that when an entry is created, the agent will supply values for the bits that match the capabilities of the agent

with respect to this protocol. Note that since row creations usually exercise the limited extensibility feature, these bits will usually be set to zero."

::= { protocolDirEntry 5 }

protocolDirAddressMapConfig OBJECT-TYPE
SYNTAX INTEGER {
notSupported(1),
supportedOff(2),
supportedOn(3)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object describes and configures the probe's support for address mapping for this protocol. When the probe creates entries in this table for all protocols that it understands,

it will set the entry to notSupported(1) if it doesn't have the capability to perform address mapping for the protocol or if this protocol is not a network-layer protocol. When an entry is created in this table by a management operation as part of the limited extensibility feature,

the probe must set this value to notSupported(1), because limited extensibility of the protocolDirTable does not extend to interpreting addresses of the extended protocols.

If the value of this object is notSupported(1), the probe will not perform address mapping for this protocol and shall not allow this object to be changed to any other value.
If the value of this object is supportedOn(3), the probe supports address mapping for this protocol and is configured to perform address mapping for this protocol for all addressMappingControlEntries and all interfaces.
If the value of this object is supportedOff(2), the probe supports address mapping for this protocol but is configured to not perform address mapping for this protocol for any addressMappingControlEntries and all interfaces.
Whenever this value changes from supportedOn(3) to supportedOff(2), the probe

```
shall delete all related entries in
    the addressMappingTable."
  ::= { protocolDirEntry 6 }

protocolDirHostConfig OBJECT-TYPE
  SYNTAX      INTEGER {
                notSupported(1),
                supportedOff(2),
                supportedOn(3)
              }
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
    "This object describes and configures the probe's support for
    the network-layer and application-layer host tables for this
    protocol.  When the probe creates entries in this table for
    all protocols that it understands, it will set the entry to
    notSupported(1) if it doesn't have the capability to track the
    nlHostTable for this protocol or if the alHostTable is
    implemented but doesn't have the capability to track this
    protocol.  Note that if the alHostTable is implemented, the
    probe may only support a protocol if it is supported in both
    the nlHostTable and the
alHostTable.

    If the associated protocolDirType object has the
    addressRecognitionCapable bit set, then this is a network-
    layer protocol for which the probe recognizes addresses, and



    thus the probe will populate the nlHostTable and alHostTable
    with addresses it discovers for this protocol.

    If the value of this object is notSupported(1), the probe
    will not track the nlHostTable or alHostTable for this
    protocol and shall not allow this object to be changed to any
    other value.  If the value of this object is supportedOn(3),
    the probe supports tracking of the nlHostTable and alHostTable
    for this protocol and is configured to track both tables
    for this protocol for all control entries and all interfaces.
    If the value of this object is supportedOff(2), the probe
    supports tracking of the nlHostTable and alHostTable for this
    protocol but is configured to not track these
tables
    for any control entries or interfaces.
    Whenever this value changes from supportedOn(3) to
    supportedOff(2), the probe shall delete all related entries in
```

the nlHostTable and alHostTable.

Note that since each alHostEntry references 2 protocol directory entries, one for the network address and one for the type of the highest protocol recognized, an entry will only be created in that table if this value is supportedOn(3) for both protocols."
::= { protocolDirEntry 7 }

protocolDirMatrixConfig OBJECT-TYPE
SYNTAX INTEGER {
notSupported(1),
supportedOff(2),
supportedOn(3)
}
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object describes and configures the probe's support for the network-layer and application-layer matrix tables for this protocol. When the probe creates entries
in this table for
all protocols that it understands, it will set the entry to notSupported(1) if it doesn't have the capability to track the nlMatrixTables for this protocol or if the alMatrixTables are implemented but don't have the capability to track this protocol. Note that if the alMatrix tables are implemented, the probe may only support a protocol if it is supported in both of the nlMatrixTables and both of the alMatrixTables.

If the associated protocolDirType object has the addressRecognitionCapable bit set, then this is a network-

layer protocol for which the probe recognizes addresses, and thus the probe will populate both of the nlMatrixTables and both of the alMatrixTables with addresses it discovers for this protocol.

If the value of this object is notSupported(1), the probe will not track either of the nlMatrixTables or the alMatrixTables
for this protocol and shall not allow this
object to be changed to any other value. If the value of this object is supportedOn(3), the probe supports tracking of both of the nlMatrixTables and (if implemented) both of the

```
      alMatrixTables for this protocol and is configured to track
      these tables for this protocol for all control entries and all
      interfaces.  If the value of this object is supportedOff(2),
      the probe supports tracking of both of the nlMatrixTables and
      (if implemented) both of the alMatrixTables for this protocol
      but is configured to not track these tables for this
      protocol for any control entries or interfaces.
      Whenever this value changes from supportedOn(3) to
      supportedOff(2), the probe shall delete all related entries in
      the nlMatrixTables and the alMatrixTables.

      Note that since each alMatrixEntry references 2 protocol
      directory entries, one for
 the network address and one for the
      type of the highest protocol recognized, an entry will
      only be created in that table if this value is supportedOn(3)
      for both protocols."
  ::= { protocolDirEntry 8 }

protocolDirOwner OBJECT-TYPE
  SYNTAX      OwnerString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { protocolDirEntry 9 }

protocolDirStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The status of this protocol directory entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.




     If this object is not equal to active(1), all associated
     entries in the nlHostTable, nlMatrixSDTable, nlMatrixDSTable,
     alHostTable, alMatrixSDTable, and alMatrixDSTable shall be
      deleted."
  ::= { protocolDirEntry 10 }

--
```

```
-- Protocol Distribution Group  (protocolDist)
--
-- Collects the relative amounts of octets and packets for the
-- different protocols detected on a network segment.
--    protocolDistControlTable,
--    protocolDistStatsTable

protocolDistControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF ProtocolDistControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Controls the setup of protocol type distribution statistics
     tables.

     Implementations are encouraged to add an entry per monitored
     interface upon initialization so that a default collection
     of protocol statistics is available.

     Rationale:
     This table controls collection of very basic statistics
     for any or all of the protocols detected on a given interface.
     An NMS can use this table to quickly determine bandwidth
     allocation utilized by different protocols.

     A media-specific
 statistics collection could also
     be configured (e.g., etherStats, trPStats) to easily obtain
     total frame, octet, and droppedEvents for the same
     interface."
  ::= { protocolDist 1 }

protocolDistControlEntry OBJECT-TYPE
  SYNTAX      ProtocolDistControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the protocolDistControlTable.

      An example of the indexing of this entry is
      protocolDistControlDroppedFrames.7"
  INDEX { protocolDistControlIndex }



  ::= { protocolDistControlTable 1 }

ProtocolDistControlEntry ::= SEQUENCE {
```

```
  protocolDistControlIndex              Integer32,
  protocolDistControlDataSource         DataSource,
  protocolDistControlDroppedFrames      Counter32,
  protocolDistControlCreateTime         LastCreateTime,
  protocolDistControlOwner              OwnerString,
  protocolDistControlStatus             RowStatus
}

protocolDistControlIndex
 OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS     current
  DESCRIPTION
     "A unique index for this protocolDistControlEntry."
  ::= { protocolDistControlEntry 1 }

protocolDistControlDataSource OBJECT-TYPE
  SYNTAX     DataSource
  MAX-ACCESS  read-create
  STATUS     current
  DESCRIPTION
     "The source of data for the this protocol distribution.

     The statistics in this group reflect all packets
     on the local network segment attached to the
     identified interface.

     This object may not be modified if the associated
     protocolDistControlStatus object is equal to active(1)."
  ::= { protocolDistControlEntry 2 }

protocolDistControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents,
 but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the probe
     is out of some resources and decides to shed load from this
     collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.
```

```
      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
   ::= { protocolDistControlEntry 3 }

protocolDistControlCreateTime OBJECT-TYPE
   SYNTAX     LastCreateTime
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
   ::= { protocolDistControlEntry 4 }

protocolDistControlOwner OBJECT-TYPE
   SYNTAX      OwnerString
   MAX-ACCESS  read-create
   STATUS      current
    DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
   ::= { protocolDistControlEntry 5 }

protocolDistControlStatus OBJECT-TYPE
   SYNTAX      RowStatus
   MAX-ACCESS  read-create
   STATUS      current
   DESCRIPTION
      "The status of this row.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value.

      If this object is not equal to active(1), all associated
      entries in the protocolDistStatsTable shall be deleted."
   ::= { protocolDistControlEntry 6 }

-- per interface protocol distribution statistics table
protocolDistStatsTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF ProtocolDistStatsEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An entry is made in this table for every protocol in the
      protocolDirTable that has been seen in at least one packet.
```

```
      Counters are updated
 in this table for every protocol type
      that is encountered when parsing a packet, but no counters are




      updated for packets with MAC-layer errors.

      Note that if a protocolDirEntry is deleted, all associated
      entries in this table are removed."
  ::= { protocolDist 2 }

protocolDistStatsEntry OBJECT-TYPE
  SYNTAX      ProtocolDistStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the protocolDistStatsTable.

      The index is composed of the protocolDistControlIndex of the
      associated protocolDistControlEntry, followed by the
      protocolDirLocalIndex of the associated protocol that this
      entry represents.  In other words, the index identifies the
      protocol distribution an entry is a part of and the
      particular protocol that it represents.

      An example of the indexing of this entry is
      protocolDistStatsPkts.1.18"
  INDEX { protocolDistControlIndex,
 protocolDirLocalIndex }
  ::= { protocolDistStatsTable 1 }

ProtocolDistStatsEntry ::= SEQUENCE {
  protocolDistStatsPkts                ZeroBasedCounter32,
  protocolDistStatsOctets               ZeroBasedCounter32
}

protocolDistStatsPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets of this protocol type received
      without errors.  Note that this is the number of
      link-layer packets, so if a single network-layer packet
      is fragmented into several link-layer frames, this counter
      is incremented several times."
  ::= { protocolDistStatsEntry 1 }
```

```
protocolDistStatsOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of octets in packets of this protocol type




     received since it was added to the protocolDistStatsTable
     (excluding framing bits,
 but including FCS octets), except for
     those octets in packets that contained errors.

     Note that this doesn't count just those octets in the
     particular protocol frames but includes the entire packet
     that contained the protocol."
  ::= { protocolDistStatsEntry 2 }

--
-- Address Map Group   (addressMap)
--
-- Lists MAC address to network address bindings discovered by the
-- probe and what interface they were last seen on.
--    addressMapControlTable
--    addressMapTable

addressMapInserts OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of times an address mapping entry has been
     inserted into the addressMapTable.  If an entry is inserted,
     then deleted, and then inserted, this counter will be
     incremented by 2.

     Note that the table size can be determined by subtracting
     addressMapDeletes from addressMapInserts."
  ::= { addressMap 1 }

addressMapDeletes
 OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

"The number of times an address mapping entry has been
deleted from the addressMapTable (for any reason). If
an entry is deleted, then inserted, and then deleted, this
counter will be incremented by 2.

Note that the table size can be determined by subtracting
addressMapDeletes from addressMapInserts."
::= { addressMap 2 }

addressMapMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-write

STATUS current
DESCRIPTION
"The maximum number of entries that are desired in the
addressMapTable. The probe will not create more than
this number of entries in the table but may choose to create
fewer entries in this table for any reason, including the lack
of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number
of entries in this table.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."
::= { addressMap 3 }

addressMapControlTable OBJECT-TYPE
SYNTAX SEQUENCE OF AddressMapControlEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A table to control the collection of mappings from network
layer address to physical address to interface.

Note that this is not like the typical RMON
controlTable and dataTable in which each entry creates
its own data table. Each entry in this table enables the
discovery of addresses on a new interface and the placement
of address

```
 mappings into the central addressMapTable.

      Implementations are encouraged to add an entry per monitored
      interface upon initialization so that a default collection
      of address mappings is available."
  ::= { addressMap 4 }

addressMapControlEntry OBJECT-TYPE
  SYNTAX      AddressMapControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the addressMapControlTable.

      An example of the indexing of this entry is
      addressMapControlDroppedFrames.1"



  INDEX { addressMapControlIndex }
  ::= { addressMapControlTable 1 }

AddressMapControlEntry ::= SEQUENCE {
  addressMapControlIndex              Integer32,
  addressMapControlDataSource         DataSource,
  addressMapControlDroppedFrames      Counter32,
  addressMapControlOwner              OwnerString,
  addressMapControlStatus             RowStatus
}

addressMapControlIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS
 not-accessible
  STATUS      current
  DESCRIPTION
      "A unique index for this entry in the addressMapControlTable."
  ::= { addressMapControlEntry 1 }

addressMapControlDataSource OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The source of data for this addressMapControlEntry."
  ::= { addressMapControlEntry 2 }

addressMapControlDroppedFrames OBJECT-TYPE
```

```
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the probe
     is out of some resources and decides to shed load from this
     collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { addressMapControlEntry 3 }

addressMapControlOwner OBJECT-TYPE
  SYNTAX      OwnerString



  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { addressMapControlEntry 4 }

addressMapControlStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The status of this addressMap control entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.

     If this object is not equal to active(1), all associated
     entries in the addressMapTable shall be deleted."
  ::= { addressMapControlEntry 5 }

addressMapTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AddressMapEntry
  MAX-ACCESS  not-accessible
```

```
    STATUS      current
    DESCRIPTION
        "A table of mappings from network layer address to physical
        address to interface.

        The probe will add entries to this table based on the source
        MAC and network addresses seen in packets without MAC-level
        errors.  The probe will populate this table for all protocols
        in the protocol directory table whose value of
        protocolDirAddressMapConfig is equal to supportedOn(3), and
        will delete any entries whose protocolDirEntry is deleted or
        has a protocolDirAddressMapConfig value of supportedOff(2)."
    ::= { addressMap 5 }

addressMapEntry OBJECT-TYPE
    SYNTAX      AddressMapEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A conceptual row in the addressMapTable.

        The protocolDirLocalIndex in the index identifies the network
        layer protocol of the addressMapNetworkAddress.




        An example of the indexing of this entry is
         addressMapSource.783495.18.4.128.2.6.6.11.1.3.6.1.2.1.2.2.1.1.1.

        Note that some combinations of index values may result in an
        index that exceeds 128 sub-identifiers in length, which exceeds
        the maximum for the SNMP protocol.  Implementations should take
        care to avoid such combinations."
    INDEX { addressMapTimeMark, protocolDirLocalIndex,
            addressMapNetworkAddress, addressMapSource }
    ::= { addressMapTable 1 }

AddressMapEntry ::= SEQUENCE {
    addressMapTimeMark              TimeFilter,
    addressMapNetworkAddress        OCTET STRING,
    addressMapSource                OBJECT IDENTIFIER,
    addressMapPhysicalAddress       OCTET STRING,
    addressMapLastChange            TimeStamp
}

addressMapTimeMark OBJECT-TYPE
    SYNTAX      TimeFilter
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A TimeFilter for this entry.  See the TimeFilter textual
      convention to see how this
 works."
  ::= { addressMapEntry 1 }

addressMapNetworkAddress OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "The network address for this relation.

      This is represented as an octet string with
      specific semantics and length as identified
      by the protocolDirLocalIndex component of the
      index.

      For example, if the protocolDirLocalIndex indicates an
      encapsulation of ip, this object is encoded as a length
      octet of 4, followed by the 4 octets of the IP address,
      in network byte order."
  ::= { addressMapEntry 2 }

addressMapSource OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER



  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "The interface or port on which the associated network
       address was most recently seen.

      If this address mapping was discovered on an interface, this
      object shall
 identify the instance of the ifIndex
      object, defined in [RFC2863], for the desired interface.
      For example, if an entry were to receive data from
      interface #1, this object would be set to ifIndex.1.

      If this address mapping was discovered on a port, this
      object shall identify the instance of the rptrGroupPortIndex
      object, defined in [RFC2108], for the desired port.
      For example, if an entry were to receive data from
```

```
      group #1, port #1, this object would be set to
      rptrGroupPortIndex.1.1.

      Note that while the dataSource associated with this entry
      may only point to index objects, this object may at times
      point to repeater port objects.  This situation occurs when
      the dataSource points to an interface that is a locally
      attached repeater and the agent has additional information
      about the source port of traffic seen on that repeater."
   ::= { addressMapEntry 3 }

addressMapPhysicalAddress
 OBJECT-TYPE
   SYNTAX      OCTET STRING
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The last source physical address on which the associated
      network address was seen.  If the protocol of the associated
      network address was encapsulated inside of a network-level or
      higher protocol, this will be the address of the next-lower
      protocol with the addressRecognitionCapable bit enabled and
      will be formatted as specified for that protocol."
   ::= { addressMapEntry 4 }

addressMapLastChange OBJECT-TYPE
   SYNTAX      TimeStamp
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The value of sysUpTime at the time this entry was last
      created or the values of the physical address changed.




      This can be used to help detect duplicate address problems, in
      which case this object will be updated frequently."
   ::= { addressMapEntry 5 }

--
-- Network Layer Host Group
--
--
 Counts the amount of traffic sent from and to each network address
-- discovered by the probe.
-- Note that while the hlHostControlTable also has objects that
-- control an optional alHostTable, implementation of the alHostTable is
```

```
-- not required to fully implement this group.

hlHostControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF HlHostControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A list of higher-layer (i.e., non-MAC) host table control
     entries.

     These entries will enable the collection of the network- and
     application-level host tables indexed by network addresses.
     Both the network- and application-level host tables are
     controlled by this table so that they will both be created
     and deleted at the same time, further increasing the ease with
     which they can be implemented as a single datastore.  (Note that
     if an implementation stores application-layer host records
in
     memory, it can derive network-layer host records from them.)

     Entries in the nlHostTable will be created on behalf of each
     entry in this table.  Additionally, if this probe implements
     the alHostTable, entries in the alHostTable will be created on
     behalf of each entry in this table.

     Implementations are encouraged to add an entry per monitored
     interface upon initialization so that a default collection
     of host statistics is available."
  ::= { nlHost 1 }

hlHostControlEntry OBJECT-TYPE
  SYNTAX      HlHostControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the hlHostControlTable.

     An example of the indexing of this entry is




     hlHostControlNlDroppedFrames.1"
  INDEX { hlHostControlIndex }
  ::= { hlHostControlTable 1 }

HlHostControlEntry ::= SEQUENCE {
  hlHostControlIndex             Integer32,
  hlHostControlDataSource
```

```
    DataSource,
  hlHostControlNlDroppedFrames     Counter32,
  hlHostControlNlInserts           Counter32,
  hlHostControlNlDeletes           Counter32,
  hlHostControlNlMaxDesiredEntries Integer32,
  hlHostControlAlDroppedFrames     Counter32,
  hlHostControlAlInserts           Counter32,
  hlHostControlAlDeletes           Counter32,
  hlHostControlAlMaxDesiredEntries Integer32,
  hlHostControlOwner               OwnerString,
  hlHostControlStatus              RowStatus
}

hlHostControlIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "An index that uniquely identifies an entry in the
      hlHostControlTable.  Each such entry defines
      a function that discovers hosts on a particular
      interface and places statistics about them in the
      nlHostTable, and optionally in the alHostTable, on
      behalf of this hlHostControlEntry."
  ::= { hlHostControlEntry 1 }

hlHostControlDataSource
 OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      "The source of data for the associated host tables.

      The statistics in this group reflect all packets
      on the local network segment attached to the
      identified interface.

      This object may not be modified if the associated
      hlHostControlStatus object is equal to active(1)."
  ::= { hlHostControlEntry 2 }

hlHostControlNlDroppedFrames OBJECT-TYPE



  SYNTAX     Counter32
  MAX-ACCESS read-only
```

STATUS current
DESCRIPTION
"The total number of frames that were received by the probe and therefore not accounted for in the *StatsDropEvents, but that the probe chose not to count for the associated nlHost entries for whatever reason. Most often, this event occurs when the probe is out of some resources and decides to shed load from this collection.

This count does not include packets that were not counted because they had MAC-layer errors.

Note that if the nlHostTable is inactive because no protocols are enabled in the protocol directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the exact number of frames dropped."
::= { hlHostControlEntry 3 }

hlHostControlNlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlHost entry has been inserted into the nlHost table. If an entry is inserted, then deleted, and then inserted, this counter will be incremented by 2.

To allow for efficient implementation strategies, agents may delay updating this object for short periods of time. For example, an implementation strategy may allow internal data structures to differ from those visible via SNMP for short
periods of time. This counter may reflect the internal data structures for those short periods of time.

Note that the table size can be determined by subtracting hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 4 }

hlHostControlNlDeletes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlHost entry has been

deleted from the nlHost table (for any reason). If an entry
is deleted, then inserted, and then deleted, this counter will
be incremented by 2.

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short
periods of time.

Note that the table size can be determined by subtracting
hlHostControlNlDeletes from hlHostControlNlInserts."
::= { hlHostControlEntry 5 }

hlHostControlNlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The maximum number of entries that are desired in the
nlHostTable on behalf of this control entry. The probe will
not create more than this number of associated entries in the
table but may choose to create fewer entries in this table
for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number

of entries in this table. If the associated
hlHostControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."
::= { hlHostControlEntry 6 }

hlHostControlAlDroppedFrames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only

STATUS current
DESCRIPTION
"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to count for the associated

alHost entries for whatever reason. Most often, this event
occurs when the probe is out of some resources and decides to
shed load from this collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that if the alHostTable is not implemented or is inactive

because no protocols are enabled in the protocol directory,
this value should be 0.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { hlHostControlEntry 7 }

hlHostControlAlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an alHost entry has been
inserted into the alHost table. If an entry is inserted, then
deleted, and then inserted, this counter will be incremented
by 2.

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short periods of time.

Note that the table size can
be determined by subtracting
hlHostControlAlDeletes from hlHostControlAlInserts."
::= { hlHostControlEntry 8 }

hlHostControlAlDeletes OBJECT-TYPE
SYNTAX Counter32

MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an alHost entry has been
deleted from the alHost table (for any reason). If an entry
is deleted, then inserted, and then deleted, this counter will
be incremented by 2.

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For

example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short periods of time.

Note that the table size can be determined by subtracting
hlHostControlAlDeletes from hlHostControlAlInserts."

::= { hlHostControlEntry 9 }

hlHostControlAlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The maximum number of entries that are desired in the alHost
table on behalf of this control entry. The probe will not
create more than this number of associated entries in the
table but may choose to create fewer entries in this table
for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number
of entries in this table. If the associated
hlHostControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."
::= { hlHostControlEntry 10 }

```
hlHostControlOwner OBJECT-TYPE
  SYNTAX      OwnerString
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { hlHostControlEntry 11 }

hlHostControlStatus OBJECT-TYPE
  SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION



     "The status of this hlHostControlEntry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.

     If this object is not equal to active(1), all associated
     entries in the nlHostTable and alHostTable shall be deleted."
  ::= { hlHostControlEntry 12 }

nlHostTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF NlHostEntry
  MAX-ACCESS  not-accessible
  STATUS
  current
  DESCRIPTION
     "A collection of statistics for a particular network layer
     address that has been discovered on an interface of this
     device.

     The probe will populate this table for all network layer
     protocols in the protocol directory table whose value of
     protocolDirHostConfig is equal to supportedOn(3), and
     will delete any entries whose protocolDirEntry is deleted or
     has a protocolDirHostConfig value of supportedOff(2).

     The probe will add to this table all addresses seen
     as the source or destination address in all packets with no
     MAC errors, and will increment octet and packet counts in the
     table for all packets with no MAC errors."
::= { nlHost 2 }
```

```
nlHostEntry OBJECT-TYPE
  SYNTAX      NlHostEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the nlHostTable.

     The hlHostControlIndex value in the index identifies the
      hlHostControlEntry on whose behalf this entry was created.
     The protocolDirLocalIndex value in the index identifies the
     network layer protocol of the nlHostAddress.

     An example of the indexing of this entry is
     nlHostOutPkts.1.783495.18.4.128.2.6.6.

     Note that some combinations of index values may result in an
     index that exceeds 128 sub-identifiers in length, which exceeds
     the maximum for the SNMP protocol.  Implementations should take



     care to avoid such combinations."
  INDEX { hlHostControlIndex, nlHostTimeMark,
          protocolDirLocalIndex, nlHostAddress }
  ::= { nlHostTable 1 }

NlHostEntry ::= SEQUENCE {
  nlHostTimeMark             TimeFilter,
  nlHostAddress              OCTET STRING,
  nlHostInPkts               ZeroBasedCounter32,
  nlHostOutPkts              ZeroBasedCounter32,
  nlHostInOctets             ZeroBasedCounter32,
  nlHostOutOctets            ZeroBasedCounter32,
   nlHostOutMacNonUnicastPkts  ZeroBasedCounter32,
  nlHostCreateTime           LastCreateTime
}

nlHostTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlHostEntry 1 }

nlHostAddress OBJECT-TYPE
```

```
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network address for this nlHostEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlHostEntry 2 }

nlHostInPkts OBJECT-TYPE

  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets without errors transmitted to



     this address since it was added to the nlHostTable.  Note that
     this is the number of link-layer packets, so if a single
     network-layer packet is fragmented into several link-layer
     frames, this counter is incremented several times."
  ::= { nlHostEntry 3 }

nlHostOutPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets without errors transmitted by
     this address since it was added to the nlHostTable.  Note that
     this is the number of link-layer packets, so if a single
     network-layer packet is fragmented into several link-layer
     frames, this counter is incremented several times."
  ::= { nlHostEntry 4 }

nlHostInOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS
```

```
  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted to this address
      since it was added to the nlHostTable (excluding
      framing bits, but including FCS octets), excluding
      octets in packets that contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::= { nlHostEntry 5 }

nlHostOutOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted by this address
      since it was added to the nlHostTable (excluding
      framing bits, but including FCS octets), excluding
      octets in packets that contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::=
 { nlHostEntry 6 }



nlHostOutMacNonUnicastPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets without errors transmitted by this
      address that were directed to any MAC broadcast addresses
      or to any MAC multicast addresses since this host was
      added to the nlHostTable.  Note that this is the number of
      link-layer packets, so if a single network-layer packet is
      fragmented into several link-layer frames, this counter is
      incremented several times."
  ::= { nlHostEntry 7 }

nlHostCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
```

```
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { nlHostEntry 8 }

--
-- Network Layer Matrix
 Group
--
-- Counts the amount of traffic sent between each pair of network
-- addresses discovered by the probe.
-- Note that while the hlMatrixControlTable also has objects that
-- control optional alMatrixTables, implementation of the
-- alMatrixTables is not required to fully implement this group.

hlMatrixControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF HlMatrixControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A list of higher-layer (i.e., non-MAC) matrix control entries.

     These entries will enable the collection of the network- and
     application-level matrix tables containing conversation
     statistics indexed by pairs of network addresses.
     Both the network- and application-level matrix tables are
     controlled by this table so that they will both be created
     and deleted at the same time, further increasing the ease with
     which they can be implemented as a single datastore.  (Note that
      if an implementation stores application-layer matrix records




     in memory, it can derive network-layer matrix records from
     them.)

     Entries in the nlMatrixSDTable and nlMatrixDSTable will be
     created on behalf of each entry in this table.  Additionally,
     if this probe implements the alMatrix tables, entries in the
     alMatrix tables will be created on behalf of each entry in
     this table."
  ::= { nlMatrix 1 }

hlMatrixControlEntry OBJECT-TYPE
  SYNTAX      HlMatrixControlEntry
```

```
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the hlMatrixControlTable.

     An example of indexing of this entry is
     hlMatrixControlNlDroppedFrames.1"
  INDEX { hlMatrixControlIndex }
  ::= { hlMatrixControlTable 1 }

HlMatrixControlEntry ::= SEQUENCE {
  hlMatrixControlIndex              Integer32,
  hlMatrixControlDataSource         DataSource,
  hlMatrixControlNlDroppedFrames
      Counter32,
  hlMatrixControlNlInserts          Counter32,
  hlMatrixControlNlDeletes          Counter32,
  hlMatrixControlNlMaxDesiredEntries  Integer32,
  hlMatrixControlAlDroppedFrames    Counter32,
  hlMatrixControlAlInserts          Counter32,
  hlMatrixControlAlDeletes          Counter32,
  hlMatrixControlAlMaxDesiredEntries  Integer32,
  hlMatrixControlOwner              OwnerString,
  hlMatrixControlStatus             RowStatus
}

hlMatrixControlIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "An index that uniquely identifies an entry in the
     hlMatrixControlTable.  Each such entry defines
     a function that discovers conversations on a particular
     interface and places statistics about them in the
     nlMatrixSDTable and the nlMatrixDSTable, and optionally the
     alMatrixSDTable and alMatrixDSTable, on
 behalf of this




     hlMatrixControlEntry."
  ::= { hlMatrixControlEntry 1 }

hlMatrixControlDataSource OBJECT-TYPE
  SYNTAX      DataSource
  MAX-ACCESS  read-create
  STATUS      current
```

```
  DESCRIPTION
      "The source of the data for the associated matrix tables.

      The statistics in this group reflect all packets
      on the local network segment attached to the
      identified interface.

      This object may not be modified if the associated
      hlMatrixControlStatus object is equal to active(1)."
  ::= { hlMatrixControlEntry 2 }

hlMatrixControlNlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the probe
      is out of
 some resources and decides to shed load from this
      collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that if the nlMatrixTables are inactive because no
      protocols are enabled in the protocol directory, this value
      should be 0.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { hlMatrixControlEntry 3 }

hlMatrixControlNlInserts OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The number of times an nlMatrix entry has been
      inserted into the nlMatrix tables.  If an entry is inserted,



      then deleted, and then inserted, this counter will be
      incremented by 2.  The addition of a conversation into both
      the nlMatrixSDTable and nlMatrixDSTable shall be counted as
```

two insertions (even though every addition into one table must
be accompanied by an insertion into the other).

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short periods of time.

Note that the sum of then nlMatrixSDTable and nlMatrixDSTable
sizes can be determined by subtracting
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
::= { hlMatrixControlEntry 4 }

hlMatrixControlNlDeletes OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of times an nlMatrix entry has been
deleted from the nlMatrix tables (for any reason). If an
entry is deleted, then inserted, and then deleted, this
counter
will be incremented by 2. The deletion of a
conversation from both the nlMatrixSDTable and nlMatrixDSTable
shall be counted as two deletions (even though every deletion
from one table must be accompanied by a deletion from the
other).

To allow for efficient implementation strategies, agents may
delay updating this object for short periods of time. For
example, an implementation strategy may allow internal
data structures to differ from those visible via SNMP for
short periods of time. This counter may reflect the internal
data structures for those short periods of time.

Note that the table size can be determined by subtracting
hlMatrixControlNlDeletes from hlMatrixControlNlInserts."
::= { hlMatrixControlEntry 5 }

hlMatrixControlNlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The
maximum number of entries that are desired in the
nlMatrix tables on behalf of this control entry. The probe
will not create more than this number of associated entries in
the table but may choose to create fewer entries in this
table for any reason, including the lack of resources.

If this object is set to a value less than the current number
of entries, enough entries are chosen in an
implementation-dependent manner and deleted so that the number
of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number
of entries in this table. If the associated
hlMatrixControlStatus object is equal to 'active', this
object may not be modified.

This object may be used to control how resources are allocated
on the probe for the various RMON functions."
::= { hlMatrixControlEntry 6 }

hlMatrixControlAlDroppedFrames OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of frames that were received by the probe
and therefore not accounted for in the *StatsDropEvents, but
that the probe chose not to count for this entry for
whatever reason. Most often, this event occurs when the probe
is out of some resources and decides to shed load from this
collection.

This count does not include packets that were not counted
because they had MAC-layer errors.

Note that if the alMatrixTables are not implemented or are
inactive because no protocols are enabled in the protocol
directory, this value should be 0.

Note that, unlike the dropEvents counter, this number is the
exact number of frames dropped."
::= { hlMatrixControlEntry 7 }

hlMatrixControlAlInserts OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only

```
  STATUS     current
  DESCRIPTION


       "The number of times an alMatrix entry has been
       inserted into the alMatrix tables.  If an entry is inserted,
       then deleted, and then inserted, this counter will be
       incremented by 2.  The addition of a conversation into both
       the alMatrixSDTable and alMatrixDSTable shall be counted as
       two insertions (even though every addition into one table must
       be accompanied by an insertion into the other).

       To allow for efficient implementation strategies, agents may
       delay updating this object for short periods of time.  For
       example, an implementation strategy may allow internal
       data structures to differ from those visible via SNMP for
       short periods of time.  This counter may reflect the internal
       data structures for those short periods of time.

       Note that the table size can be determined by subtracting
       hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
  ::= { hlMatrixControlEntry
 8 }

hlMatrixControlAlDeletes OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
       "The number of times an alMatrix entry has been
       deleted from the alMatrix tables.  If an entry is deleted,
       then inserted, and then deleted, this counter will be
       incremented by 2.  The deletion of a conversation from both
       the alMatrixSDTable and alMatrixDSTable shall be counted as
       two deletions (even though every deletion from one table must
       be accompanied by a deletion from the other).

       To allow for efficient implementation strategies, agents may
       delay updating this object for short periods of time.  For
       example, an implementation strategy may allow internal
       data structures to differ from those visible via SNMP for
       short periods of time.  This counter may reflect the internal
       data structures for those short periods of time.

       Note
 that the table size can be determined by subtracting
       hlMatrixControlAlDeletes from hlMatrixControlAlInserts."
```

::= { hlMatrixControlEntry 9 }

hlMatrixControlAlMaxDesiredEntries OBJECT-TYPE
SYNTAX Integer32 (-1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION

"The maximum number of entries that are desired in the alMatrix tables on behalf of this control entry. The probe will not create more than this number of associated entries in the table but may choose to create fewer entries in this table for any reason, including the lack of resources.

If this object is set to a value less than the current number of entries, enough entries are chosen in an implementation-dependent manner and deleted so that the number of entries in the table equals the value of this object.

If this value is set to -1, the probe may create any number of entries in this
table. If the associated
hlMatrixControlStatus object is equal to 'active', this object may not be modified.

This object may be used to control how resources are allocated on the probe for the various RMON functions."
::= { hlMatrixControlEntry 10 }

hlMatrixControlOwner OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is therefore using the resources assigned to it."
::= { hlMatrixControlEntry 11 }

hlMatrixControlStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this hlMatrixControlEntry.

An entry may not exist in the active state unless all

objects in the entry have an appropriate value.

If this object is not equal to active(1), all
associated entries in the nlMatrixSDTable,
nlMatrixDSTable, alMatrixSDTable,
and alMatrixDSTable
shall be deleted by the agent."
::= { hlMatrixControlEntry 12 }

nlMatrixSDTable OBJECT-TYPE
SYNTAX SEQUENCE OF NlMatrixSDEntry
MAX-ACCESS not-accessible

STATUS current
DESCRIPTION
"A list of traffic matrix entries that collect statistics for
conversations between two network-level addresses. This table
is indexed first by the source address and then by the
destination address to make it convenient to collect all
conversations from a particular address.

The probe will populate this table for all network layer
protocols in the protocol directory table whose value of
protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses
seen in all packets with no
MAC errors and will increment
octet and packet counts in the table for all packets with no
MAC errors.

Further, this table will only contain entries that have a
corresponding entry in the nlMatrixDSTable with the same
source address and destination address."
::= { nlMatrix 2 }

nlMatrixSDEntry OBJECT-TYPE
SYNTAX NlMatrixSDEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A conceptual row in the nlMatrixSDTable.

The hlMatrixControlIndex value in the index identifies the

hlMatrixControlEntry on whose behalf this entry was created.
The protocolDirLocalIndex value in the index identifies the
network-layer protocol of the nlMatrixSDSourceAddress and
nlMatrixSDDestAddress.

An example of the indexing of this table is
nlMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.

Note that some combinations of index values may result in an

index that exceeds 128 sub-identifiers in length, which exceeds
the maximum for the SNMP protocol. Implementations should take
care to avoid such combinations."
INDEX { hlMatrixControlIndex, nlMatrixSDTimeMark,
protocolDirLocalIndex,
nlMatrixSDSourceAddress, nlMatrixSDDestAddress }
::= { nlMatrixSDTable 1 }

```
NlMatrixSDEntry ::= SEQUENCE {
  nlMatrixSDTimeMark            TimeFilter,
  nlMatrixSDSourceAddress       OCTET STRING,
  nlMatrixSDDestAddress         OCTET STRING,
  nlMatrixSDPkts              ZeroBasedCounter32,
  nlMatrixSDOctets            ZeroBasedCounter32,
  nlMatrixSDCreateTime          LastCreateTime
}

nlMatrixSDTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlMatrixSDEntry 1 }

nlMatrixSDSourceAddress OBJECT-TYPE
   SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network source address for this nlMatrixSDEntry.

     This is represented as an octet string with
     specific semantics and length as identified
     by the protocolDirLocalIndex component of the index.
```

For example, if the protocolDirLocalIndex indicates an
encapsulation of IP, this object is encoded as a length
octet of 4, followed by the 4 octets of the IP address,
in network byte order."
::= { nlMatrixSDEntry 2 }

nlMatrixSDDestAddress OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..255))
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"The network destination address for this
nlMatrixSDEntry.

This is represented as an octet string with
specific semantics and length as identified
by the protocolDirLocalIndex component of the index.

For example, if the protocolDirLocalIndex indicates an

encapsulation of IP, this object is encoded as a length
octet of 4, followed by the 4 octets of the IP address,
in network byte order."
::= { nlMatrixSDEntry 3 }

nlMatrixSDPkts OBJECT-TYPE
SYNTAX ZeroBasedCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of packets without errors transmitted from the
source address to the destination address since this entry was
added to the nlMatrixSDTable. Note that this is the number of
link-layer packets, so if a single network-layer packet is
fragmented into several link-layer frames, this counter is
incremented several times."
::= { nlMatrixSDEntry 4 }

nlMatrixSDOctets OBJECT-TYPE
SYNTAX ZeroBasedCounter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets transmitted from the source address to

the destination address since this entry was added to the
nlMatrixSDTable (excluding framing bits, but
including FCS octets), excluding octets in packets that
contained errors.

Note that this doesn't count just those octets in the particular
protocol frames but includes the entire packet that contained
the protocol."
::= { nlMatrixSDEntry 5 }

nlMatrixSDCreateTime OBJECT-TYPE
SYNTAX LastCreateTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this entry was last activated.
This can be used by the management station to ensure that the
entry has not been deleted and recreated between polls."
::= { nlMatrixSDEntry 6 }

-- Traffic matrix tables from destination to source

nlMatrixDSTable OBJECT-TYPE

SYNTAX SEQUENCE OF NlMatrixDSEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"A list of traffic matrix
entries that collect statistics for
conversations between two network-level addresses. This table
is indexed first by the destination address and then by the
source address to make it convenient to collect all
conversations to a particular address.

The probe will populate this table for all network layer
protocols in the protocol directory table whose value of
protocolDirMatrixConfig is equal to supportedOn(3), and
will delete any entries whose protocolDirEntry is deleted or
has a protocolDirMatrixConfig value of supportedOff(2).

The probe will add to this table all pairs of addresses
seen in all packets with no MAC errors and will increment
octet and packet counts in the table for all packets with no
MAC errors.

```
      Further, this table will only contain entries that have a
      corresponding entry in the nlMatrixSDTable with the same
      source address and destination
 address."
  ::= { nlMatrix 3 }

nlMatrixDSEntry OBJECT-TYPE
  SYNTAX      NlMatrixDSEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the nlMatrixDSTable.

      The hlMatrixControlIndex value in the index identifies the
      hlMatrixControlEntry on whose behalf this entry was created.
      The protocolDirLocalIndex value in the index identifies the
      network-layer protocol of the nlMatrixDSSourceAddress and
      nlMatrixDSDestAddress.

      An example of the indexing of this table is
      nlMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { hlMatrixControlIndex, nlMatrixDSTimeMark,
          protocolDirLocalIndex,



          nlMatrixDSDestAddress,
 nlMatrixDSSourceAddress }
  ::= { nlMatrixDSTable 1 }

NlMatrixDSEntry ::= SEQUENCE {
  nlMatrixDSTimeMark              TimeFilter,
  nlMatrixDSSourceAddress          OCTET STRING,
  nlMatrixDSDestAddress            OCTET STRING,
  nlMatrixDSPkts                 ZeroBasedCounter32,
  nlMatrixDSOctets                ZeroBasedCounter32,
  nlMatrixDSCreateTime            LastCreateTime
}

nlMatrixDSTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { nlMatrixDSEntry 1 }

nlMatrixDSSourceAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network source address for this nlMatrixDSEntry.

     This is represented as an octet string with
     specific semantics and
 length as identified
     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlMatrixDSEntry 2 }

nlMatrixDSDestAddress OBJECT-TYPE
  SYNTAX      OCTET STRING  (SIZE (1..255))
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "The network destination address for this
     nlMatrixDSEntry.

     This is represented as an octet string with
     specific semantics and length as identified




     by the protocolDirLocalIndex component of the index.

     For example, if the protocolDirLocalIndex indicates an
     encapsulation of IP, this object is encoded as a length
     octet of 4, followed by the 4 octets of the IP address,
     in network byte order."
  ::= { nlMatrixDSEntry 3 }

nlMatrixDSPkts
 OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
```

```
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets without errors transmitted from the
     source address to the destination address since this entry was
     added to the nlMatrixDSTable.  Note that this is the number of
     link-layer packets, so if a single network-layer packet is
     fragmented into several link-layer frames, this counter is
     incremented several times."
  ::= { nlMatrixDSEntry 4 }

nlMatrixDSOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of octets transmitted from the source address
     to the destination address since this entry was added to the
     nlMatrixDSTable (excluding framing bits, but
     including FCS octets), excluding octets in packets that
     contained errors.

     Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
     the protocol."
  ::= { nlMatrixDSEntry 5 }

nlMatrixDSCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { nlMatrixDSEntry 6 }

nlMatrixTopNControlTable OBJECT-TYPE



  SYNTAX      SEQUENCE OF NlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A set of parameters that control the creation of a
     report of the top N matrix entries according to
     a selected metric."
```

```
  ::= { nlMatrix 4 }

nlMatrixTopNControlEntry OBJECT-TYPE
  SYNTAX      NlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row
 in the nlMatrixTopNControlTable.

      An example of the indexing of this table is
      nlMatrixTopNControlDuration.3"
  INDEX { nlMatrixTopNControlIndex }
  ::= { nlMatrixTopNControlTable 1 }

NlMatrixTopNControlEntry ::= SEQUENCE {
  nlMatrixTopNControlIndex            Integer32,
  nlMatrixTopNControlMatrixIndex      Integer32,
  nlMatrixTopNControlRateBase         INTEGER,
  nlMatrixTopNControlTimeRemaining    Integer32,
  nlMatrixTopNControlGeneratedReports Counter32,
  nlMatrixTopNControlDuration         Integer32,
  nlMatrixTopNControlRequestedSize    Integer32,
  nlMatrixTopNControlGrantedSize      Integer32,
  nlMatrixTopNControlStartTime        TimeStamp,
  nlMatrixTopNControlOwner            OwnerString,
  nlMatrixTopNControlStatus           RowStatus
}

nlMatrixTopNControlIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "An index that uniquely identifies an entry
       in the nlMatrixTopNControlTable.  Each such
      entry defines one topN report prepared for
      one interface."
  ::= { nlMatrixTopNControlEntry 1 }

nlMatrixTopNControlMatrixIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)



  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
```

```
      "The nlMatrix[SD/DS] table for which a topN report will be
      prepared on behalf of this entry.  The nlMatrix[SD/DS] table
      is identified by the value of the hlMatrixControlIndex
      for that table - that value is used here to identify the
      particular table.

      This object may not be modified if the associated
      nlMatrixTopNControlStatus object is equal to active(1)."
    ::= { nlMatrixTopNControlEntry 2 }

nlMatrixTopNControlRateBase OBJECT-TYPE
    SYNTAX      INTEGER {
                  nlMatrixTopNPkts(1),
                  nlMatrixTopNOctets(2),
                  nlMatrixTopNHighCapacityPkts(3),
                  nlMatrixTopNHighCapacityOctets(4)
                }
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The variable for each nlMatrix[SD/DS] entry that the
      nlMatrixTopNEntries are sorted by, as well as a control
      for the table that the results will be reported in.

      This object may not be modified if the associated
      nlMatrixTopNControlStatus object is equal to active(1).

      If this value is less than or equal to 2, when the report
      is prepared, entries are created in the nlMatrixTopNTable
      associated with this object.
      If this value is greater than or equal to 3, when the report
      is prepared, entries are created in the
      nlMatrixTopNHighCapacityTable associated with this object."
    ::= { nlMatrixTopNControlEntry 3 }

nlMatrixTopNControlTimeRemaining OBJECT-TYPE
    SYNTAX     Integer32 (0..2147483647)
    MAX-ACCESS read-create
    STATUS     current
    DESCRIPTION
      "The number of seconds left
   in the report currently
      being collected.  When this object is modified by
      the management station, a new collection is started,
      possibly aborting a currently running report.  The
      new value is used as the requested duration of this
```

report and is immediately loaded into the associated
nlMatrixTopNControlDuration object.

When the report finishes, the probe will automatically
start another collection with the same initial value
of nlMatrixTopNControlTimeRemaining. Thus, the management
station may simply read the resulting reports repeatedly,
checking the startTime and duration each time to ensure that a
report was not missed or that the report parameters were not
changed.

While the value of this object is non-zero, it decrements
by one per second until it reaches zero. At the time
that this object decrements to zero, the report is made
accessible
in the nlMatrixTopNTable, overwriting any report
that may be there.

When this object is modified by the management station, any
associated entries in the nlMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used
in the hostTopNTable)."
DEFVAL { 1800 }
::= { nlMatrixTopNControlEntry 4 }

nlMatrixTopNControlGeneratedReports OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of reports that have been generated by this entry."
::= { nlMatrixTopNControlEntry 5 }

nlMatrixTopNControlDuration OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of seconds that this report has collected
during the last sampling interval.

When the associated nlMatrixTopNControlTimeRemaining object is
set, this object shall be set by the probe to the
same
value and shall not be modified until the next
time the nlMatrixTopNControlTimeRemaining is set.

```
        This value shall be zero if no reports have been
        requested for this nlMatrixTopNControlEntry."



    ::= { nlMatrixTopNControlEntry 6 }

nlMatrixTopNControlRequestedSize OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS read-create
    STATUS      current
    DESCRIPTION
        "The maximum number of matrix entries requested for this report.

        When this object is created or modified, the probe
        should set nlMatrixTopNControlGrantedSize as closely to this
        object as possible for the particular probe
        implementation and available resources."
    DEFVAL { 150 }
    ::= { nlMatrixTopNControlEntry 7 }

nlMatrixTopNControlGrantedSize OBJECT-TYPE
    SYNTAX      Integer32 (0..2147483647)
    MAX-ACCESS read-only
    STATUS      current
    DESCRIPTION
        "The maximum number of matrix entries in this report.

        When
   the associated nlMatrixTopNControlRequestedSize object is
        created or modified, the probe should set this
        object as closely to the requested value as
        possible for the particular implementation and
        available resources.  The probe must not lower this
        value except as a side-effect of a set to the associated
        nlMatrixTopNControlRequestedSize object.

        If the value of nlMatrixTopNControlRateBase is equal to
        nlMatrixTopNPkts, when the next topN report is generated,
        matrix entries with the highest value of nlMatrixTopNPktRate
        shall be placed in this table in decreasing order of this rate
        until there is no more room or until there are no more
        matrix entries.

        If the value of nlMatrixTopNControlRateBase is equal to
        nlMatrixTopNOctets, when the next topN report is generated,
        matrix entries with the highest value of nlMatrixTopNOctetRate
```

shall be placed in this table in decreasing
order of this rate
until there is no more room or until there are no more
matrix entries.

It is an implementation-specific matter how entries with the
same value of nlMatrixTopNPktRate or nlMatrixTopNOctetRate are
sorted. It is also an implementation-specific matter as to

whether zero-valued entries are available."
::= { nlMatrixTopNControlEntry 8 }

nlMatrixTopNControlStartTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this topN report was
last started. In other words, this is the time that
the associated nlMatrixTopNControlTimeRemaining object was
modified to start the requested report or the time
the report was last automatically (re)started.

This object may be used by the management station to
determine whether a report was missed."
::= { nlMatrixTopNControlEntry 9 }

nlMatrixTopNControlOwner
OBJECT-TYPE
SYNTAX OwnerString
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The entity that configured this entry and is
therefore using the resources assigned to it."
::= { nlMatrixTopNControlEntry 10 }

nlMatrixTopNControlStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The status of this nlMatrixTopNControlEntry.

An entry may not exist in the active state unless all
objects in the entry have an appropriate value.

```
      If this object is not equal to active(1), all
      associated entries in the nlMatrixTopNTable shall be deleted
      by the agent."
  ::= { nlMatrixTopNControlEntry 11 }

nlMatrixTopNTable OBJECT-TYPE
  SYNTAX     SEQUENCE OF NlMatrixTopNEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "A set of statistics for those network-layer matrix entries




      that have
 counted the highest number of octets or packets."
  ::= { nlMatrix 5 }

nlMatrixTopNEntry OBJECT-TYPE
  SYNTAX     NlMatrixTopNEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "A conceptual row in the nlMatrixTopNTable.

      The nlMatrixTopNControlIndex value in the index identifies the
      nlMatrixTopNControlEntry on whose behalf this entry was
      created.

      An example of the indexing of this table is
      nlMatrixTopNPktRate.3.10"
  INDEX { nlMatrixTopNControlIndex, nlMatrixTopNIndex }
  ::= { nlMatrixTopNTable 1 }

NlMatrixTopNEntry ::= SEQUENCE {
  nlMatrixTopNIndex               Integer32,
  nlMatrixTopNProtocolDirLocalIndex Integer32,
  nlMatrixTopNSourceAddress       OCTET STRING,
  nlMatrixTopNDestAddress         OCTET STRING,
  nlMatrixTopNPktRate             Gauge32,
  nlMatrixTopNReversePktRate      Gauge32,
  nlMatrixTopNOctetRate           Gauge32,
  nlMatrixTopNReverseOctetRate
    Gauge32
}

nlMatrixTopNIndex OBJECT-TYPE
```

```
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "An index that uniquely identifies an entry in
     the nlMatrixTopNTable among those in the same report.
     This index is between 1 and N, where N is the
     number of entries in this report.

     If the value of nlMatrixTopNControlRateBase is equal to
     nlMatrixTopNPkts, increasing values of nlMatrixTopNIndex shall
     be assigned to entries with decreasing values of
     nlMatrixTopNPktRate until index N is assigned or there are no
     more nlMatrixTopNEntries.

     If the value of nlMatrixTopNControlRateBase is equal to
     nlMatrixTopNOctets, increasing values of nlMatrixTopNIndex




     shall be assigned to entries with decreasing values of
     nlMatrixTopNOctetRate until index N is assigned or there are
     no more nlMatrixTopNEntries."
  ::= { nlMatrixTopNEntry 1 }

nlMatrixTopNProtocolDirLocalIndex
 OBJECT-TYPE
  SYNTAX     Integer32 (1..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The protocolDirLocalIndex of the network-layer protocol of
     this entry's network address."
  ::= { nlMatrixTopNEntry 2 }

nlMatrixTopNSourceAddress OBJECT-TYPE
  SYNTAX     OCTET STRING  (SIZE (1..255))
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The network-layer address of the source host in this
     conversation.

     This is represented as an octet string with
     specific semantics and length as identified
     by the associated nlMatrixTopNProtocolDirLocalIndex.

     For example, if the protocolDirLocalIndex indicates an
```

encapsulation of IP, this object is encoded as a length
octet of 4, followed by the 4 octets of the IP address,
in network byte order."
::= { nlMatrixTopNEntry 3 }

nlMatrixTopNDestAddress OBJECT-TYPE
SYNTAX OCTET
STRING (SIZE (1..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The network-layer address of the destination host in this
conversation.

This is represented as an octet string with
specific semantics and length as identified
by the associated nlMatrixTopNProtocolDirLocalIndex.

For example, if the nlMatrixTopNProtocolDirLocalIndex
indicates an encapsulation of IP, this object is encoded as a
length octet of 4, followed by the 4 octets of the IP address,
in network byte order."

::= { nlMatrixTopNEntry 4 }

nlMatrixTopNPktRate OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of packets seen from the source host
to the destination host during this sampling interval, counted
using the rules for counting the nlMatrixSDPkts object.
If the value of nlMatrixTopNControlRateBase is
nlMatrixTopNPkts,
this variable will be used to sort this
report."
::= { nlMatrixTopNEntry 5 }

nlMatrixTopNReversePktRate OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of packets seen from the destination host to the
source host during this sampling interval, counted

```
      using the rules for counting the nlMatrixSDPkts object.  (Note
      that the corresponding nlMatrixSDPkts object selected is the
      one whose source address is equal to nlMatrixTopNDestAddress
      and whose destination address is equal to
      nlMatrixTopNSourceAddress.)

      Note that if the value of nlMatrixTopNControlRateBase is equal
      to nlMatrixTopNPkts, the sort of topN entries is based
      entirely on nlMatrixTopNPktRate, and not on the value of this
      object."
  ::= { nlMatrixTopNEntry 6 }

nlMatrixTopNOctetRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
   DESCRIPTION
      "The number of octets seen from the source host
      to the destination host during this sampling interval, counted
      using the rules for counting the nlMatrixSDOctets object.  If
      the value of nlMatrixTopNControlRateBase is
      nlMatrixTopNOctets, this variable will be used to sort this
      report."
  ::= { nlMatrixTopNEntry 7 }

nlMatrixTopNReverseOctetRate OBJECT-TYPE



  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The number of octets seen from the destination host to the
      source host during this sampling interval, counted
      using the rules for counting the nlMatrixDSOctets object.  (Note
      that the corresponding nlMatrixSDOctets object selected is the
      one whose source address is equal to nlMatrixTopNDestAddress
      and whose destination address is equal to
      nlMatrixTopNSourceAddress.)

      Note that if the value of nlMatrixTopNControlRateBase
 is equal
      to nlMatrixTopNOctets, the sort of topN entries is based
      entirely on nlMatrixTopNOctetRate, and not on the value of
      this object."
  ::= { nlMatrixTopNEntry 8 }
```

```
-- Application Layer Functions
--
-- The application layer host, matrix, and matrixTopN functions report
-- on protocol usage at the network layer or higher.  Note that the
-- use of the term application layer does not imply that only
-- application-layer protocols are counted, rather it means that
-- protocols up to and including the application layer are supported.

--
-- Application Layer Host Group
--
-- Counts the amount of traffic, by protocol, sent from and to each
-- network address discovered by the probe.
-- Implementation of this group requires implementation of the Network
-- Layer Host Group.

alHostTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlHostEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A collection of statistics for a particular
 protocol from a
     particular network address that has been discovered on an
     interface of this device.

     The probe will populate this table for all protocols in the
     protocol directory table whose value of
     protocolDirHostConfig is equal to supportedOn(3), and
     will delete any entries whose protocolDirEntry is deleted or
     has a protocolDirHostConfig value of supportedOff(2).



     The probe will add to this table all addresses
     seen as the source or destination address in all packets with
     no MAC errors and will increment octet and packet counts in
     the table for all packets with no MAC errors.  Further,
     entries will only be added to this table if their address
     exists in the nlHostTable and will be deleted from this table
     if their address is deleted from the nlHostTable."
  ::= { alHost 1 }

alHostEntry OBJECT-TYPE
  SYNTAX      AlHostEntry
  MAX-ACCESS  not-accessible
  STATUS
```

```
    current
  DESCRIPTION
      "A conceptual row in the alHostTable.

      The hlHostControlIndex value in the index identifies the
      hlHostControlEntry on whose behalf this entry was created.
      The first protocolDirLocalIndex value in the index identifies
      the network-layer protocol of the address.
      The nlHostAddress value in the index identifies the network-
      layer address of this entry.
      The second protocolDirLocalIndex value in the index identifies
      the protocol that is counted by this entry.

      An example of the indexing in this entry is
      alHostOutPkts.1.783495.18.4.128.2.6.6.34.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { hlHostControlIndex, alHostTimeMark,
          protocolDirLocalIndex,
 nlHostAddress,
          protocolDirLocalIndex }
  ::= { alHostTable 1 }

AlHostEntry ::= SEQUENCE {
  alHostTimeMark              TimeFilter,
  alHostInPkts               ZeroBasedCounter32,
  alHostOutPkts               ZeroBasedCounter32,
  alHostInOctets              ZeroBasedCounter32,
  alHostOutOctets              ZeroBasedCounter32,
  alHostCreateTime            LastCreateTime
}

alHostTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter




  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A TimeFilter for this entry.  See the TimeFilter textual
      convention to see how this works."
  ::= { alHostEntry 1 }

alHostInPkts OBJECT-TYPE
```

```
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets of this protocol type without errors
      transmitted to this address since it was added to the
      alHostTable.  Note that this is the number
 of link-layer
      packets, so if a single network-layer packet is fragmented
      into several link-layer frames, this counter is incremented
      several times."
  ::= { alHostEntry 2 }

alHostOutPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of packets of this protocol type without errors
      transmitted by this address since it was added to the
      alHostTable.  Note that this is the number of link-layer
      packets, so if a single network-layer packet is fragmented
      into several link-layer frames, this counter is incremented
      several times."
   ::= { alHostEntry 3 }

alHostInOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted to this address
      of this protocol type since it was added to the
      alHostTable (excluding framing bits, but
 including
      FCS octets), excluding octets in packets that
      contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::= { alHostEntry 4 }



alHostOutOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
      "The number of octets transmitted by this address
      of this protocol type since it was added to the
      alHostTable (excluding framing bits, but including
      FCS octets), excluding octets in packets that
      contained errors.

      Note that this doesn't count just those octets in the particular
      protocol frames but includes the entire packet that contained
      the protocol."
  ::= { alHostEntry 5 }

alHostCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
      "The value
 of sysUpTime when this entry was last activated.
      This can be used by the management station to ensure that the
      entry has not been deleted and recreated between polls."
  ::= { alHostEntry 6 }

--
-- Application Layer Matrix Group
--
-- Counts the amount of traffic, by protocol, sent between each pair
-- of network addresses discovered by the probe.
-- Implementation of this group requires implementation of the Network
-- Layer Matrix Group.

alMatrixSDTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlMatrixSDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A list of application traffic matrix entries that collect
      statistics for conversations of a particular protocol between
      two network-level addresses.  This table is indexed first by
      the source address and then by the destination address to make
      it convenient to collect all statistics from a particular
      address.

      The probe will populate
 this table for all protocols in the
      protocol directory table whose value of
```

```
      protocolDirMatrixConfig is equal to supportedOn(3), and
      will delete any entries whose protocolDirEntry is deleted or
      has a protocolDirMatrixConfig value of supportedOff(2).

      The probe will add to this table all pairs of addresses for
      all protocols seen in all packets with no MAC errors and will
      increment octet and packet counts in the table for all packets
      with no MAC errors.  Further, entries will only be added to
      this table if their address pair exists in the nlMatrixSDTable
      and will be deleted from this table if the address pair is
      deleted from the nlMatrixSDTable."
  ::= { alMatrix 1 }

alMatrixSDEntry OBJECT-TYPE
  SYNTAX      AlMatrixSDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the alMatrixSDTable.

      The hlMatrixControlIndex value in the index
 identifies the
      hlMatrixControlEntry on whose behalf this entry was created.
      The first protocolDirLocalIndex value in the index identifies
      the network-layer protocol of the nlMatrixSDSourceAddress and
      nlMatrixSDDestAddress.
      The nlMatrixSDSourceAddress value in the index identifies the
      network-layer address of the source host in this conversation.
      The nlMatrixSDDestAddress value in the index identifies the
      network-layer address of the destination host in this
      conversation.
      The second protocolDirLocalIndex value in the index identifies
      the protocol that is counted by this entry.

      An example of the indexing of this entry is
      alMatrixSDPkts.1.783495.18.4.128.2.6.6.4.128.2.6.7.34.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should
 take
      care to avoid such combinations."
  INDEX { hlMatrixControlIndex, alMatrixSDTimeMark,
          protocolDirLocalIndex,
          nlMatrixSDSourceAddress, nlMatrixSDDestAddress,
          protocolDirLocalIndex }
```

```
  ::= { alMatrixSDTable 1 }

AlMatrixSDEntry ::= SEQUENCE {
  alMatrixSDTimeMark              TimeFilter,



  alMatrixSDPkts                 ZeroBasedCounter32,
  alMatrixSDOctets               ZeroBasedCounter32,
  alMatrixSDCreateTime           LastCreateTime
}

alMatrixSDTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { alMatrixSDEntry 1 }

alMatrixSDPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets of this protocol type without errors
     transmitted
 from the source address to the destination address
     since this entry was added to the alMatrixSDTable.  Note that
     this is the number of link-layer packets, so if a single
     network-layer packet is fragmented into several link-layer
     frames, this counter is incremented several times."
  ::= { alMatrixSDEntry 2 }

alMatrixSDOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of octets in packets of this protocol type
     transmitted from the source address to the destination address
     since this entry was added to the alMatrixSDTable (excluding
     framing bits, but including FCS octets), excluding octets
     in packets that contained errors.

     Note that this doesn't count just those octets in the particular
     protocol frames but includes the entire packet that contained
```

```
      the protocol."
  ::= { alMatrixSDEntry 3 }

alMatrixSDCreateTime
 OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION



      "The value of sysUpTime when this entry was last activated.
      This can be used by the management station to ensure that the
      entry has not been deleted and recreated between polls."
  ::= { alMatrixSDEntry 4 }

-- Traffic matrix tables from destination to source

alMatrixDSTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlMatrixDSEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A list of application traffic matrix entries that collect
      statistics for conversations of a particular protocol between
      two network-level addresses.  This table is indexed first by
      the destination address and then by the source address to make
      it convenient to collect all statistics to a particular
      address.

      The probe will populate this table for all protocols in the
      protocol directory
 table whose value of
      protocolDirMatrixConfig is equal to supportedOn(3), and
      will delete any entries whose protocolDirEntry is deleted or
      has a protocolDirMatrixConfig value of supportedOff(2).

      The probe will add to this table all pairs of addresses for
      all protocols seen in all packets with no MAC errors and will
      increment octet and packet counts in the table for all packets
      with no MAC errors.  Further, entries will only be added to
      this table if their address pair exists in the nlMatrixDSTable
      and will be deleted from this table if the address pair is
      deleted from the nlMatrixDSTable."
  ::= { alMatrix 2 }

alMatrixDSEntry OBJECT-TYPE
```

```
  SYNTAX      AlMatrixDSEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      "A conceptual row in the alMatrixDSTable.

      The hlMatrixControlIndex value in the index identifies the
      hlMatrixControlEntry on whose behalf
this entry was created.
      The first protocolDirLocalIndex value in the index identifies
      the network-layer protocol of the alMatrixDSSourceAddress and
      alMatrixDSDestAddress.
      The nlMatrixDSDestAddress value in the index identifies the
      network-layer address of the destination host in this
```



```
      conversation.
      The nlMatrixDSSourceAddress value in the index identifies the
      network-layer address of the source host in this conversation.
      The second protocolDirLocalIndex value in the index identifies
      the protocol that is counted by this entry.

      An example of the indexing of this entry is
      alMatrixDSPkts.1.783495.18.4.128.2.6.7.4.128.2.6.6.34.

      Note that some combinations of index values may result in an
      index that exceeds 128 sub-identifiers in length, which exceeds
      the maximum for the SNMP protocol.  Implementations should take
      care to avoid such combinations."
  INDEX { hlMatrixControlIndex,
alMatrixDSTimeMark,
          protocolDirLocalIndex,
          nlMatrixDSDestAddress, nlMatrixDSSourceAddress,
          protocolDirLocalIndex }
  ::= { alMatrixDSTable 1 }

AlMatrixDSEntry ::= SEQUENCE {
  alMatrixDSTimeMark              TimeFilter,
  alMatrixDSPkts                ZeroBasedCounter32,
  alMatrixDSOctets               ZeroBasedCounter32,
  alMatrixDSCreateTime            LastCreateTime
}

alMatrixDSTimeMark OBJECT-TYPE
  SYNTAX      TimeFilter
  MAX-ACCESS  not-accessible
  STATUS      current
```

```
  DESCRIPTION
     "A TimeFilter for this entry.  See the TimeFilter textual
     convention to see how this works."
  ::= { alMatrixDSEntry 1 }

alMatrixDSPkts OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of packets of this protocol type without errors
     transmitted from the source address to the destination address

    since this entry was added to the alMatrixDSTable.  Note that
     this is the number of link-layer packets, so if a single
     network-layer packet is fragmented into several link-layer
     frames, this counter is incremented several times."
  ::= { alMatrixDSEntry 2 }




alMatrixDSOctets OBJECT-TYPE
  SYNTAX      ZeroBasedCounter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     "The number of octets in packets of this protocol type
     transmitted from the source address to the destination address
     since this entry was added to the alMatrixDSTable (excluding
     framing bits, but including FCS octets), excluding octets
     in packets that contained errors.

     Note that this doesn't count just those octets in the particular
     protocol frames but includes the entire packet that contained
     the protocol."
  ::= { alMatrixDSEntry 3 }

alMatrixDSCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS
 read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this entry was last activated.
     This can be used by the management station to ensure that the
     entry has not been deleted and recreated between polls."
  ::= { alMatrixDSEntry 4 }
```

```
alMatrixTopNControlTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF AlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A set of parameters that control the creation of a
     report of the top N matrix entries according to
     a selected metric."
  ::= { alMatrix 3 }

alMatrixTopNControlEntry OBJECT-TYPE
  SYNTAX      AlMatrixTopNControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "A conceptual row in the alMatrixTopNControlTable.

     An example of the indexing of this table is
     alMatrixTopNControlDuration.3"
  INDEX { alMatrixTopNControlIndex }
  ::= { alMatrixTopNControlTable 1 }




AlMatrixTopNControlEntry
 ::= SEQUENCE {
  alMatrixTopNControlIndex           Integer32,
  alMatrixTopNControlMatrixIndex     Integer32,
  alMatrixTopNControlRateBase        INTEGER,
  alMatrixTopNControlTimeRemaining   Integer32,
  alMatrixTopNControlGeneratedReports Counter32,
  alMatrixTopNControlDuration        Integer32,
  alMatrixTopNControlRequestedSize   Integer32,
  alMatrixTopNControlGrantedSize     Integer32,
  alMatrixTopNControlStartTime       TimeStamp,
  alMatrixTopNControlOwner           OwnerString,
  alMatrixTopNControlStatus          RowStatus
}

alMatrixTopNControlIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "An index that uniquely identifies an entry
     in the alMatrixTopNControlTable.  Each such
```

```
      entry defines one topN report prepared for
      one interface."
   ::= { alMatrixTopNControlEntry 1 }

alMatrixTopNControlMatrixIndex OBJECT-TYPE
    SYNTAX     Integer32 (1..65535)
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "The alMatrix[SD/DS] table for which a topN report will be
      prepared on behalf of this entry.  The alMatrix[SD/DS] table
      is identified by the value of the hlMatrixControlIndex
      for that table - that value is used here to identify the
      particular table.

      This object may not be modified if the associated
      alMatrixTopNControlStatus object is equal to active(1)."
   ::= { alMatrixTopNControlEntry 2 }

alMatrixTopNControlRateBase OBJECT-TYPE
   SYNTAX     INTEGER {
                alMatrixTopNTerminalsPkts(1),
                alMatrixTopNTerminalsOctets(2),
                alMatrixTopNAllPkts(3),
                alMatrixTopNAllOctets(4),
                alMatrixTopNTerminalsHighCapacityPkts(5),
                alMatrixTopNTerminalsHighCapacityOctets(6),



                alMatrixTopNAllHighCapacityPkts(7),

              alMatrixTopNAllHighCapacityOctets(8)
               }
   MAX-ACCESS read-create
   STATUS     current
   DESCRIPTION
      "This object controls which alMatrix[SD/DS] entry that the
      alMatrixTopNEntries are sorted by, which view of the matrix
      table that will be used, as well as which table the results
      will be reported in.

      The values alMatrixTopNTerminalsPkts,
      alMatrixTopNTerminalsOctets,
      alMatrixTopNTerminalsHighCapacityPkts, and
      alMatrixTopNTerminalsHighCapacityOctets cause collection
      only from protocols that have no child protocols that are
      counted.  The values alMatrixTopNAllPkts,
```

alMatrixTopNAllOctets, alMatrixTopNAllHighCapacityPkts, and
alMatrixTopNAllHighCapacityOctets cause collection from all
alMatrix entries.

This object may not be modified if the associated
alMatrixTopNControlStatus object is equal to active(1)."
::= { alMatrixTopNControlEntry
3 }

alMatrixTopNControlTimeRemaining OBJECT-TYPE
SYNTAX Integer32 (0..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The number of seconds left in the report currently
being collected. When this object is modified by
the management station, a new collection is started,
possibly aborting a currently running report. The
new value is used as the requested duration of this
report and is immediately loaded into the associated
alMatrixTopNControlDuration object.

When the report finishes, the probe will automatically
start another collection with the same initial value
of alMatrixTopNControlTimeRemaining. Thus, the management
station may simply read the resulting reports repeatedly,
checking the startTime and duration each time to ensure that a
report was not missed or that the report parameters were not
changed.

While the value
of this object is non-zero, it decrements
by one per second until it reaches zero. At the time

that this object decrements to zero, the report is made
accessible in the alMatrixTopNTable, overwriting any report
that may be there.

When this object is modified by the management station, any
associated entries in the alMatrixTopNTable shall be deleted.

(Note that this is a different algorithm than the one used
in the hostTopNTable)."
DEFVAL { 1800 }
::= { alMatrixTopNControlEntry 4 }

```
alMatrixTopNControlGeneratedReports OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of reports that have been generated by this entry."
  ::= { alMatrixTopNControlEntry 5 }

alMatrixTopNControlDuration OBJECT-TYPE
  SYNTAX     Integer32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of seconds that this report has collected
      during the last sampling interval.

     When the associated alMatrixTopNControlTimeRemaining object
     is set, this object shall be set by the probe to the
     same value and shall not be modified until the next
     time the alMatrixTopNControlTimeRemaining is set.

     This value shall be zero if no reports have been
     requested for this alMatrixTopNControlEntry."
  ::= { alMatrixTopNControlEntry 6 }

alMatrixTopNControlRequestedSize OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The maximum number of matrix entries requested for this report.

     When this object is created or modified, the probe
     should set alMatrixTopNControlGrantedSize as closely to this
     object as possible for the particular probe
     implementation and available resources."



  DEFVAL { 150 }
  ::= { alMatrixTopNControlEntry 7 }

alMatrixTopNControlGrantedSize OBJECT-TYPE
   SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The maximum number of matrix entries in this report.
```

When the associated alMatrixTopNControlRequestedSize object
is created or modified, the probe should set this
object as closely to the requested value as
possible for the particular implementation and
available resources. The probe must not lower this
value except as a side-effect of a set to the associated
alMatrixTopNControlRequestedSize object.

If the value of alMatrixTopNControlRateBase is equal to
alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, when the
next topN report is generated, matrix entries with the highest
value of alMatrixTopNPktRate shall be placed in this table in
decreasing order of this rate until there is no more room or
until there are no more matrix entries.

If the value of alMatrixTopNControlRateBase
is equal to
alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, when the
next topN report is generated, matrix entries with the highest
value of alMatrixTopNOctetRate shall be placed in this table
in decreasing order of this rate until there is no more room
or until there are no more matrix entries.

It is an implementation-specific matter how entries with the
same value of alMatrixTopNPktRate or alMatrixTopNOctetRate are
sorted. It is also an implementation-specific matter as to
whether zero-valued entries are available."
::= { alMatrixTopNControlEntry 8 }

alMatrixTopNControlStartTime OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime when this topN report was
last started. In other words, this is the time that
the associated alMatrixTopNControlTimeRemaining object
was modified
to start the requested report or the time
the report was last automatically (re)started.

This object may be used by the management station to
determine whether a report was missed."
::= { alMatrixTopNControlEntry 9 }

```
alMatrixTopNControlOwner OBJECT-TYPE
  SYNTAX     OwnerString
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { alMatrixTopNControlEntry 10 }

alMatrixTopNControlStatus OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "The status of this alMatrixTopNControlEntry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value.

     If this object is not equal to active(1), all
     associated entries in the alMatrixTopNTable shall be
     deleted by the agent."
  ::= { alMatrixTopNControlEntry
 11 }

alMatrixTopNTable OBJECT-TYPE
  SYNTAX     SEQUENCE OF AlMatrixTopNEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "A set of statistics for those application-layer matrix
     entries that have counted the highest number of octets or
     packets."
  ::= { alMatrix 4 }

alMatrixTopNEntry OBJECT-TYPE
  SYNTAX     AlMatrixTopNEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "A conceptual row in the alMatrixTopNTable.

     The alMatrixTopNControlIndex value in the index identifies
     the alMatrixTopNControlEntry on whose behalf this entry was
     created.
```

```
      An example of the indexing of this table is
      alMatrixTopNPktRate.3.10"
  INDEX { alMatrixTopNControlIndex, alMatrixTopNIndex }
  ::= { alMatrixTopNTable 1 }

AlMatrixTopNEntry ::= SEQUENCE {
  alMatrixTopNIndex                    Integer32,
  alMatrixTopNProtocolDirLocalIndex    Integer32,

 alMatrixTopNSourceAddress             OCTET STRING,
  alMatrixTopNDestAddress              OCTET STRING,
  alMatrixTopNAppProtocolDirLocalIndex Integer32,
  alMatrixTopNPktRate                  Gauge32,
  alMatrixTopNReversePktRate           Gauge32,
  alMatrixTopNOctetRate                Gauge32,
  alMatrixTopNReverseOctetRate         Gauge32
 }

alMatrixTopNIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "An index that uniquely identifies an entry in
      the alMatrixTopNTable among those in the same report.

      This index is between 1 and N, where N is the
      number of entries in this report.

      If the value of alMatrixTopNControlRateBase is equal to
      alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, increasing
      values of alMatrixTopNIndex shall be assigned to entries with
      decreasing values of alMatrixTopNPktRate until index N is

    assigned or there are no more alMatrixTopNEntries.

      If the value of alMatrixTopNControlRateBase is equal to
      alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets,
      increasing values of alMatrixTopNIndex shall be assigned to
      entries with decreasing values of alMatrixTopNOctetRate until
      index N is assigned or there are no more alMatrixTopNEntries."
  ::= { alMatrixTopNEntry 1 }

alMatrixTopNProtocolDirLocalIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..2147483647)
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
```

"The protocolDirLocalIndex of the network-layer protocol of this entry's network address."

::= { alMatrixTopNEntry 2 }

alMatrixTopNSourceAddress OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The network-layer address of the source host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network byte order."
::= { alMatrixTopNEntry 3 }

alMatrixTopNDestAddress OBJECT-TYPE
SYNTAX OCTET STRING (SIZE (1..255))
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The network-layer address of the destination host in this conversation.

This is represented as an octet string with specific semantics and length as identified by the associated alMatrixTopNProtocolDirLocalIndex.

For example, if the alMatrixTopNProtocolDirLocalIndex indicates an encapsulation of IP, this object is encoded as a length octet of 4, followed by the 4 octets of the IP address, in network
byte order."
::= { alMatrixTopNEntry 4 }

alMatrixTopNAppProtocolDirLocalIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS read-only
STATUS current

```
  DESCRIPTION
     "The type of the protocol counted by this matrix entry."
  ::= { alMatrixTopNEntry 5 }

alMatrixTopNPktRate OBJECT-TYPE
  SYNTAX     Gauge32



  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of packets seen of this protocol from the source
     host to the destination host during this sampling interval,
     counted using the rules for counting the alMatrixSDPkts
     object.

     If the value of alMatrixTopNControlRateBase is
     alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, this
     variable will be used to sort this report."
  ::= { alMatrixTopNEntry 6 }

alMatrixTopNReversePktRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of packets
 seen of this protocol from the
     destination host to the source host during this sampling
     interval, counted using the rules for counting the
     alMatrixDSPkts object.  (Note that the corresponding
     alMatrixSDPkts object selected is the one whose source address
     is equal to alMatrixTopNDestAddress and whose destination
     address is equal to alMatrixTopNSourceAddress.)

     Note that if the value of alMatrixTopNControlRateBase is equal
     to alMatrixTopNTerminalsPkts or alMatrixTopNAllPkts, the sort
     of topN entries is based entirely on alMatrixTopNPktRate, and
     not on the value of this object."
  ::= { alMatrixTopNEntry 7 }

alMatrixTopNOctetRate OBJECT-TYPE
  SYNTAX     Gauge32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The number of octets seen of this protocol from the source
```

host to the destination host during this sampling interval,
counted using the rules for counting
the alMatrixSDOctets
object.

If the value of alMatrixTopNControlRateBase is
alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, this
variable will be used to sort this report."
::= { alMatrixTopNEntry 8 }

alMatrixTopNReverseOctetRate OBJECT-TYPE

SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The number of octets seen of this protocol from the
destination host to the source host during this sampling
interval, counted using the rules for counting the
alMatrixDSOctets object. (Note that the corresponding
alMatrixSDOctets object selected is the one whose source
address is equal to alMatrixTopNDestAddress and whose
destination address is equal to alMatrixTopNSourceAddress.)

Note that if the value of alMatrixTopNControlRateBase is equal
to alMatrixTopNTerminalsOctets or alMatrixTopNAllOctets, the
sort of topN entries is based
entirely on
alMatrixTopNOctetRate, and not on the value of this object."
::= { alMatrixTopNEntry 9 }

--
-- User History Collection Group (usrHistory)
--
-- The usrHistory group combines mechanisms seen in the alarm and
-- history groups to provide user-specified history collection,
-- utilizing two additional control tables and one additional data
-- table. This function has traditionally been done by NMS
-- applications, via periodic polling. The usrHistory group allows
-- this task to be offloaded to an RMON probe.
--
-- Data (an ASN.1 INTEGER based object) is collected in the same
-- manner as any history data table (e.g., etherHistoryTable) except
-- that the user specifies the MIB instances to be collected. Objects
-- are collected in bucket-groups, with the intent that all MIB
-- instances in the same bucket-group are collected as atomically as

-- possible by the RMON probe.
--
-- The usrHistoryControlTable is a one-dimensional read-create table.
-- Each row configures
 a collection of user history buckets, much
-- the same as a historyControlEntry, except that the creation of a
-- row in this table will cause one or more associated instances in
-- the usrHistoryObjectTable to be created. The user specifies the
-- number of bucket elements (rows in the usrHistoryObjectTable)
-- requested, as well as the number of buckets requested.
--
-- The usrHistoryObjectTable is a 2-d read-write table.
-- Each row configures a single MIB instance to be collected.
-- All rows with the same major index constitute a bucket-group.
--
-- The usrHistoryTable is a 3-d read-only table containing

-- the data of associated usrHistoryControlEntries. Each
-- entry represents the value of a single MIB instance
-- during a specific sampling interval (or the rate of
-- change during the interval).
--
-- A sample value is stored in two objects - an absolute value and
-- a status object. This allows numbers from -(2G-1) to +4G to be
-- stored. The status object also indicates
 whether a sample is
-- valid. This allows data collection to continue if periodic
-- retrieval of a particular instance fails for any reason.
--
-- Row Creation Order Relationships
--
-- The static nature of the usrHistoryObjectTable creates
-- some row creation/modification issues. The rows in this
-- table need to be set before the associated
-- usrHistoryControlEntry can be activated.
--
-- Note that the usrHistoryObject entries associated with a
-- particular usrHistoryControlEntry are not required to
-- be active before the control entry is activated. However,
-- the usrHistory data entries associated with an inactive
-- usrHistoryObject entry will be inactive (i.e.,
-- usrHistoryValStatus == valueNotAvailable).
--

usrHistoryControlTable OBJECT-TYPE
  SYNTAX SEQUENCE OF UsrHistoryControlEntry

```
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of data-collection configuration entries."
  ::= { usrHistory 1 }

usrHistoryControlEntry OBJECT-TYPE
   SYNTAX UsrHistoryControlEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of parameters that set up a group of user-defined
     MIB objects to be sampled periodically (called a
     bucket-group).

     For example, an instance of usrHistoryControlInterval
     might be named usrHistoryControlInterval.1"
  INDEX { usrHistoryControlIndex }
  ::= { usrHistoryControlTable 1 }




UsrHistoryControlEntry ::= SEQUENCE {
  usrHistoryControlIndex            Integer32,
  usrHistoryControlObjects          Integer32,
  usrHistoryControlBucketsRequested  Integer32,
  usrHistoryControlBucketsGranted    Integer32,
  usrHistoryControlInterval         Integer32,
  usrHistoryControlOwner            OwnerString,
  usrHistoryControlStatus           RowStatus
}

usrHistoryControlIndex OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "An index that uniquely
 identifies an entry in the
     usrHistoryControlTable.  Each such entry defines a
     set of samples at a particular interval for a specified
     set of MIB instances available from the managed system."
  ::= { usrHistoryControlEntry 1 }

usrHistoryControlObjects OBJECT-TYPE
  SYNTAX Integer32 (1..65535)
  MAX-ACCESS read-create
```

```
    STATUS current
    DESCRIPTION
        "The number of MIB objects to be collected
        in the portion of usrHistoryTable associated with this
        usrHistoryControlEntry.

        This object may not be modified if the associated instance
        of usrHistoryControlStatus is equal to active(1)."
    ::= { usrHistoryControlEntry 2 }

usrHistoryControlBucketsRequested OBJECT-TYPE
    SYNTAX Integer32 (1..65535)
    MAX-ACCESS read-create
    STATUS current
    DESCRIPTION
        "The requested number of discrete time intervals
        over which data is to be saved in the part of the
        usrHistoryTable associated with this usrHistoryControlEntry.

         When this object is created or modified, the probe
        should set usrHistoryControlBucketsGranted as closely to
        this object as possible for the particular probe
        implementation and available resources."
    DEFVAL { 50 }



    ::= { usrHistoryControlEntry 3 }

usrHistoryControlBucketsGranted OBJECT-TYPE
    SYNTAX Integer32 (1..65535)
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The number of discrete sampling intervals
        over which data shall be saved in the part of
        the usrHistoryTable associated with this
        usrHistoryControlEntry.

        When the associated usrHistoryControlBucketsRequested
        object is created or modified, the probe should set
        this object as closely to the requested value as
        possible for the particular probe implementation and
        available resources.  The probe must not lower this
        value except as a result of a modification to the associated
         usrHistoryControlBucketsRequested object.

        The associated usrHistoryControlBucketsRequested object
```

should be set before or at the same time as this object
to allow the probe to accurately estimate the resources
required for this usrHistoryControlEntry.

There will be times when the actual number of buckets
associated with this entry is less than the value of
this object. In this case, at the end of each sampling
interval, a new bucket will be added to the usrHistoryTable.

When the number of buckets reaches the value of this object
and a new bucket is to be added to the usrHistoryTable,
the oldest bucket associated with this usrHistoryControlEntry
shall be deleted by the agent so that the new bucket can be
added.

When the value of this object changes to a value less than
the current value, entries are deleted from the
usrHistoryTable associated with
this usrHistoryControlEntry.
Enough of the oldest of these entries shall be deleted by the
agent so that their number remains less than or equal to the
new value of this object.

When the value of this object changes to a value greater
than the current value, the number of associated usrHistory
entries may be allowed to grow."
::= { usrHistoryControlEntry 4 }

usrHistoryControlInterval OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The interval in seconds over which the data is
sampled for each bucket in the part of the usrHistory
table associated with this usrHistoryControlEntry.

Because the counters in a bucket may overflow at their
maximum value with no indication, a prudent manager will
take into account the possibility of overflow in any of
the associated counters. It is important to consider the

minimum time in which any counter could overflow on a
particular media type and to set the usrHistoryControlInterval
object to a value less than this interval.

```
      This object may not be modified if the associated
      usrHistoryControlStatus object is equal to active(1)."
   DEFVAL { 1800 }
   ::= { usrHistoryControlEntry 5 }

usrHistoryControlOwner OBJECT-TYPE
   SYNTAX OwnerString
   MAX-ACCESS read-create
   STATUS current
   DESCRIPTION
      "The entity that configured this entry and is
      therefore using the resources assigned to it."
   ::= { usrHistoryControlEntry 6 }

usrHistoryControlStatus OBJECT-TYPE
   SYNTAX RowStatus
   MAX-ACCESS read-create
   STATUS current
   DESCRIPTION
      "The status of this variable history control entry.

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value.

      If this object is not equal to active(1), all associated
      entries
 in the usrHistoryTable shall be deleted."
   ::= { usrHistoryControlEntry 7 }

-- Object table

usrHistoryObjectTable OBJECT-TYPE



   SYNTAX SEQUENCE OF UsrHistoryObjectEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
      "A list of data-collection configuration entries."
   ::= { usrHistory 2 }

usrHistoryObjectEntry OBJECT-TYPE
   SYNTAX UsrHistoryObjectEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
```

"A list of MIB instances to be sampled periodically.

Entries in this table are created when an associated
usrHistoryControlObjects object is created.

The usrHistoryControlIndex value in the index is
that of the associated usrHistoryControlEntry.

For example, an instance of usrHistoryObjectVariable might be
usrHistoryObjectVariable.1.3"
INDEX { usrHistoryControlIndex, usrHistoryObjectIndex }
::= { usrHistoryObjectTable 1 }

UsrHistoryObjectEntry ::= SEQUENCE {

usrHistoryObjectIndex Integer32,
usrHistoryObjectVariable OBJECT IDENTIFIER,
usrHistoryObjectSampleType INTEGER
}

usrHistoryObjectIndex OBJECT-TYPE
SYNTAX Integer32 (1..65535)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An index used to uniquely identify an entry in the
usrHistoryObject table. Each such entry defines a
MIB instance to be collected periodically."
::= { usrHistoryObjectEntry 1 }

usrHistoryObjectVariable OBJECT-TYPE
SYNTAX OBJECT IDENTIFIER
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The object identifier of the particular variable to be

sampled.

Only variables that resolve to an ASN.1 primitive type of
Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be
sampled.

Because SNMP access control is articulated entirely in terms
of the contents of MIB views, no access control mechanism

```
 exists that can restrict the value of this object to identify
      only those objects that exist in a particular MIB view.
      Because there is thus no acceptable means of restricting the
      read access that could be obtained through the user history
      mechanism, the probe must only grant write access to this
      object in those views that have read access to all objects on
      the probe.  See USM [RFC3414] and VACM [RFC3415] for more
      information.

      During a set operation, if the supplied variable name is not
      available in the selected MIB view, a badValue error must be
      returned.

      This object may not be modified if the associated
      usrHistoryControlStatus object is equal to active(1)."
  ::= { usrHistoryObjectEntry 2 }

usrHistoryObjectSampleType OBJECT-TYPE
  SYNTAX INTEGER {
           absoluteValue(1),
           deltaValue(2)
         }
  MAX-ACCESS read-create
  STATUS current
  DESCRIPTION
      "The method of sampling the selected variable for storage in
      the usrHistoryTable.

      If the value of this object is absoluteValue(1), the value of
      the selected variable will be copied directly into the history
      bucket.

      If the value of this object is deltaValue(2), the value of the
      selected variable at the last sample will be subtracted from
      the current value, and the difference will be stored in the
      history bucket.  If the associated usrHistoryObjectVariable
      instance could not be obtained at the previous sample
      interval, then a delta sample is not possible, and the value
      of the associated usrHistoryValStatus object for this interval
      will be valueNotAvailable(1).



      This object may not be modified if the associated
      usrHistoryControlStatus object is equal to active(1)."
  ::= { usrHistoryObjectEntry 3 }
```

```
-- data table

usrHistoryTable OBJECT-TYPE
  SYNTAX SEQUENCE OF UsrHistoryEntry
   MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A list of user-defined history entries."
  ::= { usrHistory 3 }

usrHistoryEntry OBJECT-TYPE
  SYNTAX UsrHistoryEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     "A historical sample of user-defined variables.  This sample
     is associated with the usrHistoryControlEntry that set up the
     parameters for a regular collection of these samples.

     The usrHistoryControlIndex value in the index identifies the
     usrHistoryControlEntry on whose behalf this entry was created.
     The usrHistoryObjectIndex value in the index identifies the
     usrHistoryObjectEntry on whose behalf this entry was created.

     For example, an instance of usrHistoryAbsValue, which represents
     the 14th sample of a variable collected as specified by
     usrHistoryControlEntry.1 and usrHistoryObjectEntry.1.5,
     would be named usrHistoryAbsValue.1.14.5"
   INDEX { usrHistoryControlIndex, usrHistorySampleIndex,
         usrHistoryObjectIndex }
  ::= { usrHistoryTable 1 }

UsrHistoryEntry ::= SEQUENCE {
  usrHistorySampleIndex   Integer32,
  usrHistoryIntervalStart TimeStamp,
  usrHistoryIntervalEnd   TimeStamp,
  usrHistoryAbsValue      Gauge32,
  usrHistoryValStatus     INTEGER
}

usrHistorySampleIndex OBJECT-TYPE
  SYNTAX     Integer32 (1..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current



  DESCRIPTION
```

"An index that uniquely identifies the particular sample this entry represents among all samples associated with the same usrHistoryControlEntry. This index starts at 1 and increases by one as each new sample is taken."
::= { usrHistoryEntry 1 }

usrHistoryIntervalStart OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime at the start of the interval over which this sample was
measured. If the probe keeps track of
the time of day, it should start the first sample of the history at a time such that when the next hour of the day begins, a sample is started at that instant.

Note that following this rule may require that the probe delay collecting the first sample of the history, as each sample must be of the same interval. Also note that the sample that is currently being collected is not accessible in this table until the end of its interval."
::= { usrHistoryEntry 2 }

usrHistoryIntervalEnd OBJECT-TYPE
SYNTAX TimeStamp
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The value of sysUpTime at the end of the interval over which this sample was measured."
::= { usrHistoryEntry 3 }

usrHistoryAbsValue OBJECT-TYPE
SYNTAX Gauge32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The absolute value (i.e., unsigned value) of the

user-specified statistic during the last sampling period. The value during the current sampling period is not made available until the period is completed.

To obtain the true value for this sampling interval, the associated instance of usrHistoryValStatus must be checked, and usrHistoryAbsValue adjusted as necessary.

```
      If the MIB instance could not be accessed during the sampling
      interval, then this object will have a value of zero, and the
      associated instance of usrHistoryValStatus will be set to
      'valueNotAvailable(1)'.

      The access control check prescribed in the definition of
      usrHistoryObjectVariable SHOULD be checked for each sampling
      interval.  If this check determines that access should not be
      allowed, then this object will have a value of zero, and the
      associated instance of usrHistoryValStatus will be set to
      'valueNotAvailable(1)'."
  ::= { usrHistoryEntry
 4 }


usrHistoryValStatus OBJECT-TYPE
  SYNTAX INTEGER {
      valueNotAvailable(1),
      valuePositive(2),
      valueNegative(3)
  }
  MAX-ACCESS read-only
  STATUS current
  DESCRIPTION
      "This object indicates the validity and sign of the data in
      the associated instance of usrHistoryAbsValue.

      If the MIB instance could not be accessed during the sampling
      interval, then 'valueNotAvailable(1)' will be returned.

      If the sample is valid and the actual value of the sample is
      greater than or equal to zero, then 'valuePositive(2)' is
      returned.

      If the sample is valid and the actual value of the sample is
      less than zero, 'valueNegative(3)' will be returned.  The
      associated instance of usrHistoryAbsValue should be multiplied
      by -1 to obtain the true sample value."
  ::= { usrHistoryEntry 5 }

-- The Probe Configuration Group
--
-- This group controls the configuration of various operating
--
```

parameters of the probe.

```
ControlString ::= TEXTUAL-CONVENTION
  STATUS current
  DESCRIPTION
    "This data type is used to communicate with a modem or a

    serial data switch.  A ControlString contains embedded
    commands to control how the device will interact with the
    remote device through the serial interface.  Commands are
    represented as two-character sequences beginning with
    the '^' character.

    The following commands are recognized by the device (note
    that command characters are case sensitive):

      ^s  Send string that follows, which is terminated by the
          next command or the end of string.
      ^c  Delay for the number of seconds that follows.  Toss
          out any data received rather than store it in a
          buffer for parsing.
      ^t  Set timeout to the value represented by the decimal
          digits that follow.  The default timeout is 20

    seconds.  Note that this timeout may be overridden
          by a smaller serialTimeout configured for the
          associated serial interface (see serialConfigTable).
      ^w  Wait for the reply string that follows, which is
          terminated by the next command or the end of string.
          Partial and case-insensitive matching is applied, i.e.,
          if the reply string (any case combination) is found
          anywhere in the received string, then the a match is
          found.  If the current timeout elapses without a match,
          then the remaining control string is ignored.
      ^!  The ^ character.
      ^d  Delay the number of seconds specified by the decimal
          digits that follow.
      ^b  Send break for the number of milliseconds specified by
          the decimal digits that follow.  If no digits follow,
          break will be enforced for 250 milliseconds by default.

     The following ASCII control characters may be inserted into
    the '^s' send string or the '^w' reply string:

      ^@    0x00
      ^A    0x01
```

..
^M 0x0D
..
^Z 0x1A
^[0x1B
^ 0x1C
^] 0x1D
^^ 0x1E
^_ 0x1F

Binary data may also be inserted into the data stream. The control sequence for each byte of binary data is ^0x##, where ## is the hexadecimal representation of the data byte. Two ASCII characters (0-9, a-f, A-F) must follow the '^0x' control prefix. For example, '^0x0D^0x0A' is interpreted as a carriage return followed by a line feed."
SYNTAX OCTET STRING (SIZE (0..255))

probeCapabilities OBJECT-TYPE
SYNTAX BITS {
etherStats(0),
historyControl(1),
etherHistory(2),
alarm(3),
hosts(4),
hostTopN(5),
matrix(6),
filter(7),
capture(8),
event(9),
tokenRingMLStats(10),
tokenRingPStats(11),
tokenRingMLHistory(12),
tokenRingPHistory(13),
ringStation(14),
ringStationOrder(15),
ringStationConfig(16),
sourceRouting(17),
protocolDirectory(18),
protocolDistribution(19),
addressMapping(20),
nlHost(21),
nlMatrix(22),
alHost(23),
alMatrix(24),

```
      usrHistory(25),
      probeConfig(26)
    }
    MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
      "An indication of the RMON MIB groups supported
      on at least one interface by this probe."
    ::= { probeConfig 1 }

probeSoftwareRev  OBJECT-TYPE
    SYNTAX     DisplayString (SIZE(0..15))
    MAX-ACCESS read-only




    STATUS     current
    DESCRIPTION
      "The software revision of this device.  This string will have
      a zero length if the revision is unknown."
    ::= { probeConfig 2 }

probeHardwareRev
   OBJECT-TYPE
    SYNTAX     DisplayString (SIZE(0..31))
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
      "The hardware revision of this device.  This string will have
      a zero length if the revision is unknown."
    ::= { probeConfig 3 }

probeDateTime  OBJECT-TYPE
    SYNTAX     OCTET STRING (SIZE (0 | 8 | 11))
    MAX-ACCESS read-write
    STATUS     current
    DESCRIPTION
      "Probe's current date and time.

       field  octets  contents               range
       -----  ------  --------              -----
         1      1-2   year                  0..65536
         2       3    month                  1..12
         3       4    day                   1..31
         4       5    hour                  0..23
         5       6    minutes                 0..59
         6       7    seconds                 0..60
                      (use 60 for leap-second)
```

```
         7      8    deci-seconds
        0..9
         8      9    direction from UTC       '+' / '-'
         9     10    hours from UTC           0..11
        10     11    minutes from UTC         0..59

       For example, Tuesday May 26, 1992 at 1:30:15 PM
       EDT would be displayed as:

                1992-5-26,13:30:15.0,-4:0

       Note that if only local time is known, then
       time zone information (fields 8-10) is not
       present, and that if no time information is known, the
       null string is returned."
  ::= { probeConfig 4 }

probeResetControl  OBJECT-TYPE



  SYNTAX     INTEGER {
                running(1),
                warmBoot(2),
                coldBoot(3)
             }

  MAX-ACCESS read-write
  STATUS     current
  DESCRIPTION
      "Setting this object to warmBoot(2) causes the device to
      restart the application software with current configuration
      parameters saved in non-volatile memory.  Setting this

 object to coldBoot(3) causes the device to reinitialize
      configuration parameters in non-volatile memory to default
      values and to restart the application software.  When the device
      is running normally, this variable has a value of
      running(1)."
  ::= { probeConfig 5 }

-- The following download objects do not restrict an implementation
-- from implementing additional download mechanisms (controlled in an
-- implementation-specific manner).  Further, in the case where the RMON
-- agent shares a processor with other types of systems, the
-- implementation is not required to download those non-RMON functions
-- with this mechanism.
```

```
probeDownloadFile  OBJECT-TYPE
  SYNTAX     DisplayString (SIZE(0..127))
  MAX-ACCESS read-write
  STATUS     deprecated
  DESCRIPTION
     "The file name to be downloaded from the TFTP server when a
     download is next requested via this MIB.  This value is set to
     the zero-length string when no file name
has been specified.

     This object has been deprecated, as it has not had enough
     independent implementations to demonstrate interoperability to
     meet the requirements of a Draft Standard."
  ::= { probeConfig 6 }

probeDownloadTFTPServer  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-write
  STATUS     deprecated
  DESCRIPTION
     "The IP address of the TFTP server that contains the boot
     image to load when a download is next requested via this MIB.
     This value is set to '0.0.0.0' when no IP address has been




     specified.

     This object has been deprecated, as it has not had enough
     independent implementations to demonstrate interoperability to
     meet the requirements of a Draft Standard."
  ::= { probeConfig 7 }

probeDownloadAction  OBJECT-TYPE
  SYNTAX     INTEGER {
               notDownloading(1),
               downloadToPROM(2),
               downloadToRAM(3)
             }
  MAX-ACCESS
 read-write
  STATUS     deprecated
  DESCRIPTION
     "When this object is set to downloadToRAM(3) or
     downloadToPROM(2), the device will discontinue its
     normal operation and begin download of the image specified
     by probeDownloadFile from the server specified by
     probeDownloadTFTPServer using the TFTP protocol.  If
```

```
      downloadToRAM(3) is specified, the new image is copied
      to RAM only (the old image remains unaltered in the flash
      EPROM).  If downloadToPROM(2) is specified,
      the new image is written to the flash EPROM
      memory after its checksum has been verified to be correct.
      When the download process is completed, the device will
      warm boot to restart the newly loaded application.
      When the device is not downloading, this object will have
      a value of notDownloading(1).

      This object has been deprecated, as it has not had enough
      independent implementations to demonstrate
 interoperability to
      meet the requirements of a Draft Standard."
  ::= { probeConfig 8 }

probeDownloadStatus  OBJECT-TYPE
  SYNTAX     INTEGER {
                downloadSuccess(1),
                downloadStatusUnknown(2),
                downloadGeneralError(3),
                downloadNoResponseFromServer(4),
                downloadChecksumError(5),
                downloadIncompatibleImage(6),
                downloadTftpFileNotFound(7),
                downloadTftpAccessViolation(8)
             }
  MAX-ACCESS read-only



  STATUS     deprecated
  DESCRIPTION
      "The status of the last download procedure, if any.  This
      object will have a value of downloadStatusUnknown(2) if no
      download process has been performed.

      This object has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability to
      meet the requirements of a Draft Standard."
   ::= { probeConfig 9 }

serialConfigTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF SerialConfigEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
      "A table of serial interface configuration entries.  This data
```

```
      will be stored in non-volatile memory and preserved across
      probe resets or power loss.

      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability to
      meet the requirements of a Draft Standard."
   ::= { probeConfig 10 }

serialConfigEntry  OBJECT-TYPE
   SYNTAX     SerialConfigEntry
   MAX-ACCESS not-accessible
   STATUS     deprecated
   DESCRIPTION
      "A set of configuration parameters for a particular
      serial interface on this device.  If the device has no serial
      interfaces, this table is empty.

      The index is composed of the ifIndex assigned to this serial
      line interface."
   INDEX  { ifIndex }
   ::=
 { serialConfigTable 1 }

SerialConfigEntry ::= SEQUENCE {
   serialMode                 INTEGER,
   serialProtocol             INTEGER,
   serialTimeout               Integer32,
   serialModemInitString       ControlString,
   serialModemHangUpString     ControlString,
   serialModemConnectResp      DisplayString,
   serialModemNoConnectResp    DisplayString,
   serialDialoutTimeout        Integer32,



   serialStatus               RowStatus
}

serialMode  OBJECT-TYPE
   SYNTAX     INTEGER {
                 direct(1),
                 modem(2)
              }
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "The type of incoming connection to be expected on this
       serial interface."
```

```
  DEFVAL { direct }
  ::= { serialConfigEntry 1 }

serialProtocol  OBJECT-TYPE
  SYNTAX     INTEGER {
               other(1),
               slip(2),
               ppp(3)
             }
  MAX-ACCESS read-create
  STATUS
   deprecated
  DESCRIPTION
     "The type of data link encapsulation to be used on this
     serial interface."
  DEFVAL { slip }
  ::= { serialConfigEntry 2 }

serialTimeout  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "This timeout value is used when the Management Station has
     initiated the conversation over the serial link.  This variable
     represents the number of seconds of inactivity allowed before
     terminating the connection on this serial interface.  Use the
     serialDialoutTimeout in the case where the probe has initiated
     the connection for the purpose of sending a trap."
  DEFVAL { 300 }
  ::= { serialConfigEntry 3 }

serialModemInitString  OBJECT-TYPE
  SYNTAX     ControlString (SIZE (0..255))
  MAX-ACCESS read-create
  STATUS     deprecated



  DESCRIPTION
     "A control string that controls how a modem attached to this

 serial interface should be initialized.  The initialization
     is performed once during startup and again after each
     connection is terminated if the associated serialMode has the
     value of modem(2).

     A control string that is appropriate for a wide variety of
```

```
      modems is: '^s^MATE0Q0V1X4 S0=1 S2=43^M'."
   ::= { serialConfigEntry 4 }

serialModemHangUpString  OBJECT-TYPE
   SYNTAX     ControlString (SIZE (0..255))
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "A control string that specifies how to disconnect a modem
       connection on this serial interface.  This object is only
       meaningful if the associated serialMode has the value
       of modem(2).

       A control string that is appropriate for a wide variety of
       modems is: '^d2^s+++^d2^sATH0^M^d2'."
   ::= { serialConfigEntry 5 }

serialModemConnectResp  OBJECT-TYPE
   SYNTAX     DisplayString (SIZE (0..255))
   MAX-ACCESS read-create

   STATUS     deprecated
   DESCRIPTION
      "An ASCII string containing substrings that describe the
      expected modem connection response code and associated bps
      rate.  The substrings are delimited by the first character
      in the string, for example:
        /CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
        CONNECT 4800/4800/CONNECT 9600/9600
      will be interpreted as:
         response code    bps rate
         CONNECT           300
         CONNECT 1200      1200
         CONNECT 2400      2400
         CONNECT 4800      4800
         CONNECT 9600      9600
      The agent will use the information in this string to adjust
      the bps rate of this serial interface once a modem connection
      is established.

      A value that is appropriate for a wide variety of modems is:



      '/CONNECT/300/CONNECT 1200/1200/CONNECT 2400/2400/
       CONNECT 4800/4800/CONNECT 9600/9600/CONNECT 14400/14400/
      CONNECT
```

```
 19200/19200/CONNECT 38400/38400/'."
  ::= { serialConfigEntry 6 }

serialModemNoConnectResp  OBJECT-TYPE
  SYNTAX     DisplayString (SIZE (0..255))
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "An ASCII string containing response codes that may be
     generated by a modem to report the reason why a connection
     attempt has failed.  The response codes are delimited by
     the first character in the string, for example:
       /NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/

     If one of these response codes is received via this serial
     interface while attempting to make a modem connection,
     the agent will issue the hang up command as specified by
     serialModemHangUpString.

     A value that is appropriate for a wide variety of modems is:
     '/NO CARRIER/BUSY/NO DIALTONE/NO ANSWER/ERROR/'."
  ::= { serialConfigEntry 7 }

serialDialoutTimeout  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS
 read-create
  STATUS     deprecated
  DESCRIPTION
     "This timeout value is used when the probe initiates the
     serial connection with the intention of contacting a
     management station.  This variable represents the number
     of seconds of inactivity allowed before terminating the
     connection on this serial interface."
  DEFVAL { 20 }
  ::= { serialConfigEntry 8 }

serialStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The status of this serialConfigEntry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value."
  ::= { serialConfigEntry 9 }
```

```
netConfigTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF NetConfigEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A table of netConfigEntries.

     This table has been deprecated, as it has not had enough
     independent
 implementations to demonstrate interoperability to
     meet the requirements of a Draft Standard."
  ::= { probeConfig 11 }

netConfigEntry  OBJECT-TYPE
  SYNTAX     NetConfigEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A set of configuration parameters for a particular
     network interface on this device.  If the device has no network
     interface, this table is empty.

     The index is composed of the ifIndex assigned to the
     corresponding interface."
  INDEX  { ifIndex }
  ::= { netConfigTable 1 }

NetConfigEntry ::= SEQUENCE {
  netConfigIPAddress         IpAddress,
  netConfigSubnetMask        IpAddress,
  netConfigStatus            RowStatus
}

netConfigIPAddress  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The IP address of this Net interface.  The default value
     for this object is 0.0.0.0.  If either the netConfigIPAddress
      or netConfigSubnetMask is 0.0.0.0, then when the device
     boots, it may use BOOTP to try to figure out what these
     values should be.  If BOOTP fails before the device
     can talk on the network, this value must be configured
     (e.g., through a terminal attached to the device).  If BOOTP is
     used, care should be taken to not send BOOTP broadcasts too
```

frequently and to eventually send them very infrequently if no replies are received."
::= { netConfigEntry 1 }

netConfigSubnetMask OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"The subnet mask of this Net interface. The default value for this object is 0.0.0.0. If either the netConfigIPAddress or netConfigSubnetMask is 0.0.0.0, then when the device boots, it may use BOOTP to try to figure out what these values should be. If BOOTP fails before the device can talk on
the network, this value must be configured (e.g., through a terminal attached to the device). If BOOTP is used, care should be taken to not send BOOTP broadcasts too frequently and to eventually send them very infrequently if no replies are received."
::= { netConfigEntry 2 }

netConfigStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS deprecated
DESCRIPTION
"The status of this netConfigEntry.

An entry may not exist in the active state unless all objects in the entry have an appropriate value."
::= { netConfigEntry 3 }

netDefaultGateway OBJECT-TYPE
SYNTAX IpAddress
MAX-ACCESS read-write
STATUS deprecated
DESCRIPTION
"The IP Address of the default gateway. If this value is undefined or unknown, it shall have the value 0.0.0.0."
::= { probeConfig 12 }

-- Trap Destination Table
--
-- This table defines the destination addresses for traps

```
 generated
-- from the device.  This table maps a community to one or more trap
-- destination entries.
--
-- The same trap will be sent to all destinations specified in the
-- entries that have the same trapDestCommunity as the eventCommunity
-- (as defined by RMON MIB), as long as no access control mechanism
-- (e.g., VACM) prohibits sending to one or more of the destinations.
-- Information in this table will be stored in non-volatile memory.



-- If the device has gone through a hard restart, this information
-- will be reset to its default state.

trapDestTable  OBJECT-TYPE
  SYNTAX     SEQUENCE OF TrapDestEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A list of trap destination entries."
  ::= { probeConfig 13 }

trapDestEntry  OBJECT-TYPE
  SYNTAX     TrapDestEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "This entry includes a destination IP address to which
     traps are sent for this community."
   INDEX { trapDestIndex }
  ::= { trapDestTable 1 }

TrapDestEntry ::= SEQUENCE {
  trapDestIndex             Integer32,
  trapDestCommunity          OCTET STRING,
  trapDestProtocol           INTEGER,
  trapDestAddress            OCTET STRING,
  trapDestOwner              OwnerString,
  trapDestStatus             RowStatus
}

trapDestIndex  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A value that uniquely identifies this trapDestEntry."
```

```
  ::= { trapDestEntry 1 }

trapDestCommunity  OBJECT-TYPE
  SYNTAX     OCTET STRING (SIZE(0..127))
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "A community to which this destination address belongs.
     This entry is associated with any eventEntries in the RMON
     MIB whose value of eventCommunity is equal to the value of
     this object.  Every time an associated event entry sends a

    trap due to an event, that trap will be sent to each




     address in the trapDestTable with a trapDestCommunity equal
     to eventCommunity, as long as no access control mechanism
     precludes it (e.g., VACM).

     This object may not be modified if the associated
     trapDestStatus object is equal to active(1)."
  ::= { trapDestEntry 2 }

trapDestProtocol OBJECT-TYPE
  SYNTAX     INTEGER {
                ip(1),
                ipx(2)
             }
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The protocol with which this trap is to be sent."
  ::= { trapDestEntry 3 }

trapDestAddress  OBJECT-TYPE
  SYNTAX     OCTET STRING
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The destination address for traps on behalf of this entry.

     If the associated trapDestProtocol object is equal to ip(1),
     the encoding of this object is the same as the snmpUDPAddress
     textual
 convention in RFC 3417, 'Transport Mappings for the
      Simple Network Management Protocol (SNMP)' [RFC3417]:
       -- for a SnmpUDPAddress of length 6:
```

```
        --
        -- octets   contents        encoding
        --  1-4     IP-address      network-byte order
        --  5-6     UDP-port        network-byte order

       If the associated trapDestProtocol object is equal to ipx(2),
       the encoding of this object is the same as the snmpIPXAddress
       textual convention in RFC 3417, 'Transport Mappings for the
        Simple Network Management Protocol (SNMP)' [RFC3417]:
        -- for a SnmpIPXAddress of length 12:
        --
        -- octets   contents           encoding
        --  1-4     network-number      network-byte order
        --  5-10    physical-address    network-byte order
        -- 11-12    socket-number       network-byte order

       This object may not be modified if the associated



       trapDestStatus object
 is equal to active(1)."
  ::= { trapDestEntry 4 }

trapDestOwner  OBJECT-TYPE
  SYNTAX     OwnerString
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The entity that configured this entry and is
     therefore using the resources assigned to it."
  ::= { trapDestEntry 5 }

trapDestStatus  OBJECT-TYPE
  SYNTAX     RowStatus
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The status of this trap destination entry.

     An entry may not exist in the active state unless all
     objects in the entry have an appropriate value."
  ::= { trapDestEntry 6 }

-- Serial Connection Table
--
-- The device may communicate with a management station using
-- SLIP.  In order for the device to send traps via SLIP, it must
```

```
-- be able to initiate a connection over the serial interface.  The
-- serialConnectionTable stores the parameters for such connection
-- initiation.

serialConnectionTable  OBJECT-TYPE
  SYNTAX     SEQUENCE
 OF SerialConnectionEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A list of serialConnectionEntries.

     This table has been deprecated, as it has not had enough
     independent implementations to demonstrate interoperability
     to meet the requirements of a Draft Standard."
  ::= { probeConfig 14 }

serialConnectionEntry  OBJECT-TYPE
  SYNTAX     SerialConnectionEntry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION




     "Configuration for a SLIP link over a serial line."
  INDEX { serialConnectIndex }
  ::= { serialConnectionTable 1 }

SerialConnectionEntry ::= SEQUENCE {
  serialConnectIndex                Integer32,
  serialConnectDestIpAddress        IpAddress,
  serialConnectType                 INTEGER,
  serialConnectDialString           ControlString,
  serialConnectSwitchConnectSeq     ControlString,
  serialConnectSwitchDisconnectSeq  ControlString,
   serialConnectSwitchResetSeq      ControlString,
  serialConnectOwner                OwnerString,
  serialConnectStatus               RowStatus
}

serialConnectIndex  OBJECT-TYPE
  SYNTAX     Integer32 (1..65535)
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "A value that uniquely identifies this serialConnection
     entry."
```

```
  ::= { serialConnectionEntry 1 }

serialConnectDestIpAddress  OBJECT-TYPE
  SYNTAX     IpAddress
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION
     "The IP Address that can be reached at the other end of this
     serial connection.

     This object may not be modified if the associated
     serialConnectStatus object is equal to active(1)."
  ::= { serialConnectionEntry 2 }


serialConnectType  OBJECT-TYPE
  SYNTAX     INTEGER {
                direct(1),
                modem(2),
                switch(3),
                modemSwitch(4)

    }
  MAX-ACCESS read-create
  STATUS     deprecated
  DESCRIPTION



     "The type of outgoing connection to be made.  If this object
     has the value direct(1), then a direct serial connection
     is assumed.  If this object has the value modem(2),
     then serialConnectDialString will be used to make a modem
     connection.  If this object has the value switch(3),
     then serialConnectSwitchConnectSeq will be used to establish
     the connection over a serial data switch, and
     serialConnectSwitchDisconnectSeq will be used to terminate
     the connection.  If this object has the value
     modem-switch(4), then a modem connection will be made first,
     followed by the switch connection.

     This object may not be modified if the associated
     serialConnectStatus object is equal to active(1)."
  DEFVAL { direct }
  ::= { serialConnectionEntry 3 }

serialConnectDialString  OBJECT-TYPE
  SYNTAX     ControlString (SIZE(0..255))
```

```
    MAX-ACCESS read-create
    STATUS     deprecated
    DESCRIPTION
       "A control string that specifies how to dial the phone
       number in order to establish a modem connection.  The
       string should include the dialing prefix and suffix.  For
       example: '^s^MATD9,888-1234^M' will instruct the Probe
       to send a carriage return, followed by the dialing prefix
       'ATD', the phone number '9,888-1234', and a carriage
       return as the dialing suffix.

       This object may not be modified if the associated
       serialConnectStatus object is equal to active(1)."
    ::= { serialConnectionEntry 4 }

serialConnectSwitchConnectSeq  OBJECT-TYPE
    SYNTAX     ControlString (SIZE(0..255))
    MAX-ACCESS read-create
    STATUS     deprecated
    DESCRIPTION
       "A control string that specifies how to establish a
       data switch connection.

       This object may not be modified if the associated
       serialConnectStatus object is
  equal to active(1)."
    ::= { serialConnectionEntry 5 }

serialConnectSwitchDisconnectSeq  OBJECT-TYPE
    SYNTAX     ControlString (SIZE(0..255))



    MAX-ACCESS read-create
    STATUS     deprecated
    DESCRIPTION
       "A control string that specifies how to terminate a
       data switch connection.

       This object may not be modified if the associated
       serialConnectStatus object is equal to active(1)."
    ::= { serialConnectionEntry 6 }

serialConnectSwitchResetSeq  OBJECT-TYPE
    SYNTAX     ControlString (SIZE(0..255))
    MAX-ACCESS read-create
    STATUS     deprecated
    DESCRIPTION
```

```
      "A control string that specifies how to reset a data
      switch in the event of a timeout.

      This object may not be modified if the associated
      serialConnectStatus object is equal to active(1)."
   ::= { serialConnectionEntry 7 }

serialConnectOwner  OBJECT-TYPE
   SYNTAX     OwnerString
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
       "The entity that configured this entry and is
      therefore using the resources assigned to it."
   ::= { serialConnectionEntry 8 }

serialConnectStatus  OBJECT-TYPE
   SYNTAX     RowStatus
   MAX-ACCESS read-create
   STATUS     deprecated
   DESCRIPTION
      "The status of this serialConnectionEntry.

      If the manager attempts to set this object to active(1) when
      the serialConnectType is set to modem(2) or modem-switch(4)
      and the serialConnectDialString is a zero-length string or
      cannot be correctly parsed as a ConnectString, the set
      request will be rejected with badValue(3).

      If the manager attempts to set this object to active(1) when
      the serialConnectType is set to switch(3) or modem-switch(4)
      and the serialConnectSwitchConnectSeq,
      the serialConnectSwitchDisconnectSeq, or




      the serialConnectSwitchResetSeq is a zero-length string
      or cannot be correctly parsed as a ConnectString,
 the set
      request will be rejected with badValue(3).

      An entry may not exist in the active state unless all
      objects in the entry have an appropriate value."
   ::= { serialConnectionEntry 9 }

--
-- Extensions to the RMON 1 MIB for RMON 2 devices
--
```

```
-- These extensions include the standard LastCreateTime Textual
-- Convention for all control tables, as well as an augmentation of
-- the filter entry that provides variable-length offsets into
-- packets.


-- Each of the following, except for filterDroppedFrames, is a
-- read-only object which, if implemented, automatically appears when
-- the RMON1 row it is associated with is created.

etherStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF EtherStats2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { statistics 4 }

etherStats2Entry  OBJECT-TYPE
  SYNTAX     EtherStats2Entry
  MAX-ACCESS not-accessible
  STATUS
    current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { etherStatsEntry }
  ::= { etherStats2Table 1 }

EtherStats2Entry ::= SEQUENCE {
  etherStatsDroppedFrames     Counter32,
  etherStatsCreateTime        LastCreateTime
}

etherStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION



     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.
```

```
      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
   ::= { etherStats2Entry
 1 }

etherStatsCreateTime OBJECT-TYPE
   SYNTAX     LastCreateTime
   MAX-ACCESS read-only
   STATUS     current
   DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
   ::= { etherStats2Entry 2 }

historyControl2Table  OBJECT-TYPE
   SYNTAX     SEQUENCE OF HistoryControl2Entry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1."
   ::= { history 5 }

historyControl2Entry  OBJECT-TYPE
   SYNTAX     HistoryControl2Entry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1."
   AUGMENTS { historyControlEntry }
   ::= { historyControl2Table 1 }

HistoryControl2Entry ::= SEQUENCE {
   historyControlDroppedFrames Counter32
}

historyControlDroppedFrames
 OBJECT-TYPE
   SYNTAX     Counter32



   MAX-ACCESS read-only
   STATUS     current
```

```
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the
     probe is out of some resources and decides to shed load from
     this collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

     Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { historyControl2Entry 1 }

hostControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF HostControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { hosts 4 }

hostControl2Entry  OBJECT-TYPE
  SYNTAX     HostControl2Entry
   MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { hostControlEntry }
  ::= { hostControl2Table 1 }

HostControl2Entry ::= SEQUENCE {
  hostControlDroppedFrames    Counter32,
  hostControlCreateTime       LastCreateTime
}

hostControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents, but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the
```

```
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number
 of frames dropped."
  ::= { hostControl2Entry 1 }

hostControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
     activated.  This can be used by the management station to
     ensure that the table has not been deleted and recreated
     between polls."
  ::= { hostControl2Entry 2 }

matrixControl2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF MatrixControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { matrix 4 }

matrixControl2Entry  OBJECT-TYPE
  SYNTAX     MatrixControl2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { matrixControlEntry }
  ::= { matrixControl2Table 1 }

MatrixControl2Entry ::= SEQUENCE {
  matrixControlDroppedFrames  Counter32,
   matrixControlCreateTime     LastCreateTime
}

matrixControlDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
```

```
  STATUS     current
  DESCRIPTION


      "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { matrixControl2Entry 1 }

matrixControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last

  activated.  This can be used by the management station to
     ensure that the table has not been deleted and recreated
     between polls."
  ::= { matrixControl2Entry 2 }

channel2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF Channel2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  ::= { filter 3 }

channel2Entry  OBJECT-TYPE
  SYNTAX     Channel2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS { channelEntry }
  ::= { channel2Table 1 }
```

```
Channel2Entry ::= SEQUENCE {
  channelDroppedFrames    Counter32,
  channelCreateTime       LastCreateTime
}

channelDroppedFrames OBJECT-TYPE



  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
    "The total number of frames that were received by the probe
     and therefore not accounted for in the *StatsDropEvents,
but
     that the probe chose not to count for this entry for
     whatever reason.  Most often, this event occurs when the
     probe is out of some resources and decides to shed load from
     this collection.

     This count does not include packets that were not counted
     because they had MAC-layer errors.

     Note that, unlike the dropEvents counter, this number is the
     exact number of frames dropped."
  ::= { channel2Entry 1 }

channelCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
     activated.  This can be used by the management station to
     ensure that the table has not been deleted and recreated
     between polls."
  ::= { channel2Entry 2 }

tokenRingMLStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF TokenRingMLStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated

 DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1.

     This table has been deprecated, as it has not had enough
```

```
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
   ::= { statistics 5 }

tokenRingMLStats2Entry  OBJECT-TYPE
   SYNTAX     TokenRingMLStats2Entry
   MAX-ACCESS not-accessible
   STATUS     deprecated
   DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1."
   AUGMENTS { tokenRingMLStatsEntry }



   ::= { tokenRingMLStats2Table 1 }

TokenRingMLStats2Entry ::= SEQUENCE {
   tokenRingMLStatsDroppedFrames       Counter32,
   tokenRingMLStatsCreateTime          LastCreateTime
}

tokenRingMLStatsDroppedFrames OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     deprecated
   DESCRIPTION
      "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe
 chose not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
   ::= { tokenRingMLStats2Entry 1 }

tokenRingMLStatsCreateTime OBJECT-TYPE
   SYNTAX     LastCreateTime
   MAX-ACCESS read-only
   STATUS     deprecated
   DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
```

```
      ensure that the table has not been deleted and recreated
      between polls."
  ::= { tokenRingMLStats2Entry 2 }

tokenRingPStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF TokenRingPStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
       "Contains the RMON-2 augmentations to RMON-1.

      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
  ::= { statistics 6 }



tokenRingPStats2Entry  OBJECT-TYPE
  SYNTAX     TokenRingPStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
     "Contains the RMON-2 augmentations to RMON-1."
  AUGMENTS {  tokenRingPStatsEntry }
  ::= { tokenRingPStats2Table 1 }

TokenRingPStats2Entry ::= SEQUENCE {
  tokenRingPStatsDroppedFrames    Counter32,
  tokenRingPStatsCreateTime       LastCreateTime
}

tokenRingPStatsDroppedFrames OBJECT-TYPE
  SYNTAX     Counter32
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to count
 for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.
```

```
      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
   ::= { tokenRingPStats2Entry 1 }

tokenRingPStatsCreateTime OBJECT-TYPE
   SYNTAX     LastCreateTime
   MAX-ACCESS read-only
   STATUS     deprecated
   DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
   ::= { tokenRingPStats2Entry 2 }

ringStationControl2Table  OBJECT-TYPE
   SYNTAX     SEQUENCE OF RingStationControl2Entry
   MAX-ACCESS not-accessible
   STATUS     deprecated



   DESCRIPTION

      "Contains the RMON-2 augmentations to RMON-1.

      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
   ::= { tokenRing 7 }

ringStationControl2Entry  OBJECT-TYPE
   SYNTAX     RingStationControl2Entry
   MAX-ACCESS not-accessible
   STATUS     deprecated
   DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1."
   AUGMENTS { ringStationControlEntry }
   ::= { ringStationControl2Table 1 }

RingStationControl2Entry ::= SEQUENCE {
   ringStationControlDroppedFrames Counter32,
   ringStationControlCreateTime    LastCreateTime
}

ringStationControlDroppedFrames OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
```

```
  STATUS     deprecated
  DESCRIPTION
     "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose not to
 count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
  ::= { ringStationControl2Entry 1 }

ringStationControlCreateTime OBJECT-TYPE
  SYNTAX     LastCreateTime
  MAX-ACCESS read-only
  STATUS     deprecated
  DESCRIPTION
     "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to




      ensure that the table has not been deleted and recreated
      between polls."
  ::= { ringStationControl2Entry 2 }

sourceRoutingStats2Table  OBJECT-TYPE
  SYNTAX     SEQUENCE OF SourceRoutingStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
      "Contains the RMON-2 augmentations to RMON-1.

      This table has been deprecated, as it has not had enough
      independent implementations to demonstrate interoperability
      to meet the requirements of a Draft Standard."
  ::= { tokenRing 8 }

sourceRoutingStats2Entry  OBJECT-TYPE
  SYNTAX     SourceRoutingStats2Entry
  MAX-ACCESS not-accessible
  STATUS     deprecated
  DESCRIPTION
```

```
      "Contains the RMON-2 augmentations to RMON-1."
   AUGMENTS { sourceRoutingStatsEntry }
   ::= { sourceRoutingStats2Table 1 }

SourceRoutingStats2Entry ::= SEQUENCE {
   sourceRoutingStatsDroppedFrames Counter32,
   sourceRoutingStatsCreateTime    LastCreateTime
}

sourceRoutingStatsDroppedFrames OBJECT-TYPE
   SYNTAX     Counter32
   MAX-ACCESS read-only
   STATUS     deprecated
   DESCRIPTION
      "The total number of frames that were received by the probe
      and therefore not accounted for in the *StatsDropEvents, but
      that the probe chose
 not to count for this entry for
      whatever reason.  Most often, this event occurs when the
      probe is out of some resources and decides to shed load from
      this collection.

      This count does not include packets that were not counted
      because they had MAC-layer errors.

      Note that, unlike the dropEvents counter, this number is the
      exact number of frames dropped."
   ::= { sourceRoutingStats2Entry 1 }



sourceRoutingStatsCreateTime OBJECT-TYPE
   SYNTAX     LastCreateTime
   MAX-ACCESS read-only
   STATUS     deprecated
   DESCRIPTION
      "The value of sysUpTime when this control entry was last
      activated.  This can be used by the management station to
      ensure that the table has not been deleted and recreated
      between polls."
   ::= { sourceRoutingStats2Entry 2 }

filter2Table OBJECT-TYPE
   SYNTAX     SEQUENCE OF Filter2Entry
   MAX-ACCESS not-accessible
   STATUS     current
   DESCRIPTION
      "Provides
```

```
 a variable-length packet filter feature to the
      RMON-1 filter table."
  ::= { filter 4 }

filter2Entry OBJECT-TYPE
  SYNTAX     Filter2Entry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
      "Provides a variable-length packet filter feature to the
      RMON-1 filter table."
  AUGMENTS { filterEntry }
  ::= { filter2Table 1 }

Filter2Entry ::= SEQUENCE {
  filterProtocolDirDataLocalIndex     Integer32,
  filterProtocolDirLocalIndex         Integer32
}

filterProtocolDirDataLocalIndex OBJECT-TYPE
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
      "When this object is set to a non-zero value, the filter that
      it is associated with performs the following operations on
      every packet:

      1) If the packet doesn't match the protocol directory entry
         identified by this object, discard the packet and exit
         (i.e., discard the packet if it
 is not of the identified
         protocol).



      2) If the associated filterProtocolDirLocalIndex is non-zero
         and the packet doesn't match the protocol directory
         entry identified by that object, discard the packet and
         exit.
      3) If the packet matches, perform the regular filter
         algorithm as if the beginning of this named protocol is
         the beginning of the packet, potentially applying the
         filterOffset value to move further into the packet."
  DEFVAL { 0 }
  ::= { filter2Entry 1 }

filterProtocolDirLocalIndex OBJECT-TYPE
```

```
  SYNTAX     Integer32 (0..2147483647)
  MAX-ACCESS read-create
  STATUS     current
  DESCRIPTION
     "When this object is set to a non-zero value, the filter that
     it is associated with will discard the packet if the packet
     doesn't match this protocol directory entry."
  DEFVAL { 0 }
  ::= { filter2Entry 2 }

-- Conformance Macros

rmon2MIBCompliances OBJECT
 IDENTIFIER ::= { rmonConformance 1 }
rmon2MIBGroups      OBJECT IDENTIFIER ::= { rmonConformance 2 }


rmon2MIBCompliance MODULE-COMPLIANCE
  STATUS  current
  DESCRIPTION
     "Describes the requirements for conformance to
     the RMON2 MIB"
  MODULE  -- this module
     MANDATORY-GROUPS { protocolDirectoryGroup,
                        protocolDistributionGroup,
                        addressMapGroup,
                        nlHostGroup,
                        nlMatrixGroup,
                        usrHistoryGroup,
                        probeInformationGroup }

     OBJECT nlMatrixTopNControlRateBase
        SYNTAX      INTEGER {
                      nlMatrixTopNPkts(1),
                      nlMatrixTopNOctets(2)
                    }
        DESCRIPTION



           "Conformance to RMON2 requires only support for these
           values of nlMatrixTopNControlRateBase."

     GROUP   rmon1EnhancementGroup
         DESCRIPTION
           "The rmon1EnhancementGroup is mandatory for systems
           that implement RMON [RFC2819]."
     GROUP  rmon1EthernetEnhancementGroup
```

```
        DESCRIPTION
            "The rmon1EthernetEnhancementGroup is optional and is
            appropriate for systems that implement the Ethernet
            group of RMON [RFC2819]."
    ::= { rmon2MIBCompliances 1 }

rmon2MIBApplicationLayerCompliance MODULE-COMPLIANCE
    STATUS  current
    DESCRIPTION
        "Describes the requirements for conformance to
        the RMON2 MIB with Application-Layer Enhancements."
    MODULE  -- this module
        MANDATORY-GROUPS { protocolDirectoryGroup,
                           protocolDistributionGroup,
                           addressMapGroup,
                           nlHostGroup,
                           nlMatrixGroup,
                           alHostGroup,
                           alMatrixGroup,
                           usrHistoryGroup,
                           probeInformationGroup }

        OBJECT nlMatrixTopNControlRateBase
            SYNTAX      INTEGER {
                          nlMatrixTopNPkts(1),
                          nlMatrixTopNOctets(2)
                        }
            DESCRIPTION
                "Conformance to RMON2 requires only support for these
                values of nlMatrixTopNControlRateBase."

        OBJECT alMatrixTopNControlRateBase
            SYNTAX     INTEGER {
                           alMatrixTopNTerminalsPkts(1),
                           alMatrixTopNTerminalsOctets(2),
                           alMatrixTopNAllPkts(3),
                           alMatrixTopNAllOctets(4)
                         }
            DESCRIPTION
                "Conformance to RMON2 requires only support for these




                values of alMatrixTopNControlRateBase."

        GROUP   rmon1EnhancementGroup
            DESCRIPTION
                "The rmon1EnhancementGroup is mandatory
```

```
 for systems
            that implement RMON [RFC2819]."
        GROUP  rmon1EthernetEnhancementGroup
          DESCRIPTION
            "The rmon1EthernetEnhancementGroup is optional and is
            appropriate for systems that implement the Ethernet
            group of RMON [RFC2819]."
  ::= { rmon2MIBCompliances 2 }


protocolDirectoryGroup OBJECT-GROUP
  OBJECTS { protocolDirLastChange,
            protocolDirLocalIndex, protocolDirDescr,
            protocolDirType, protocolDirAddressMapConfig,
            protocolDirHostConfig, protocolDirMatrixConfig,
            protocolDirOwner, protocolDirStatus }
  STATUS  current
  DESCRIPTION
     "Lists the inventory of protocols the probe has the
     capability of monitoring and allows the addition, deletion,
     and configuration of entries in this list."
  ::= { rmon2MIBGroups 1 }

protocolDistributionGroup OBJECT-GROUP
  OBJECTS { protocolDistControlDataSource,
            protocolDistControlDroppedFrames,
             protocolDistControlCreateTime,
            protocolDistControlOwner, protocolDistControlStatus,
            protocolDistStatsPkts, protocolDistStatsOctets }
  STATUS  current
  DESCRIPTION
     "Collects the relative amounts of octets and packets for the
     different protocols detected on a network segment."
  ::= { rmon2MIBGroups 2 }

addressMapGroup OBJECT-GROUP
  OBJECTS { addressMapInserts, addressMapDeletes,
            addressMapMaxDesiredEntries,
            addressMapControlDataSource,
            addressMapControlDroppedFrames,
            addressMapControlOwner, addressMapControlStatus,
            addressMapPhysicalAddress,
            addressMapLastChange }
  STATUS  current



  DESCRIPTION
```

```
      "Lists MAC address to network address bindings discovered by
      the probe and what interface they were last seen on."
    ::= { rmon2MIBGroups 3 }

nlHostGroup OBJECT-GROUP
    OBJECTS { hlHostControlDataSource,
              hlHostControlNlDroppedFrames, hlHostControlNlInserts,
              hlHostControlNlDeletes,
              hlHostControlNlMaxDesiredEntries,
              hlHostControlAlDroppedFrames, hlHostControlAlInserts,
              hlHostControlAlDeletes,
              hlHostControlAlMaxDesiredEntries, hlHostControlOwner,
              hlHostControlStatus, nlHostInPkts, nlHostOutPkts,
              nlHostInOctets, nlHostOutOctets,
              nlHostOutMacNonUnicastPkts, nlHostCreateTime }
    STATUS  current
    DESCRIPTION
      "Counts the amount of traffic sent from and to each network
      address discovered by the probe.  Note that while the
      hlHostControlTable also has objects that control an optional
      alHostTable, implementation of the alHostTable is not
      required to fully implement this group."
    ::= { rmon2MIBGroups 4 }

nlMatrixGroup OBJECT-GROUP
    OBJECTS { hlMatrixControlDataSource,
              hlMatrixControlNlDroppedFrames,
              hlMatrixControlNlInserts, hlMatrixControlNlDeletes,
              hlMatrixControlNlMaxDesiredEntries,
              hlMatrixControlAlDroppedFrames,
              hlMatrixControlAlInserts, hlMatrixControlAlDeletes,
              hlMatrixControlAlMaxDesiredEntries,
              hlMatrixControlOwner, hlMatrixControlStatus,
              nlMatrixSDPkts, nlMatrixSDOctets, nlMatrixSDCreateTime,
              nlMatrixDSPkts, nlMatrixDSOctets, nlMatrixDSCreateTime,
              nlMatrixTopNControlMatrixIndex,
              nlMatrixTopNControlRateBase,
              nlMatrixTopNControlTimeRemaining,
              nlMatrixTopNControlGeneratedReports,
              nlMatrixTopNControlDuration,
              nlMatrixTopNControlRequestedSize,
              nlMatrixTopNControlGrantedSize,
              nlMatrixTopNControlStartTime,
              nlMatrixTopNControlOwner, nlMatrixTopNControlStatus,
              nlMatrixTopNProtocolDirLocalIndex,
              nlMatrixTopNSourceAddress,
   nlMatrixTopNDestAddress,
              nlMatrixTopNPktRate, nlMatrixTopNReversePktRate,
```

```
            nlMatrixTopNOctetRate, nlMatrixTopNReverseOctetRate }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic sent between each pair of
        network addresses discovered by the probe.  Note that while
        the hlMatrixControlTable also has objects that control
        optional alMatrixTables, implementation of the
        alMatrixTables is not required to fully implement this
        group."
     ::= { rmon2MIBGroups 5 }

alHostGroup OBJECT-GROUP
    OBJECTS { alHostInPkts, alHostOutPkts,
            alHostInOctets, alHostOutOctets, alHostCreateTime }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic, by protocol, sent from and to
        each network address discovered by the probe.  Implementation
        of this group requires implementation of the Network-Layer
        Host Group."
    ::= { rmon2MIBGroups 6 }

alMatrixGroup
   OBJECT-GROUP
    OBJECTS { alMatrixSDPkts, alMatrixSDOctets, alMatrixSDCreateTime,
            alMatrixDSPkts, alMatrixDSOctets, alMatrixDSCreateTime,
            alMatrixTopNControlMatrixIndex,
            alMatrixTopNControlRateBase,
            alMatrixTopNControlTimeRemaining,
            alMatrixTopNControlGeneratedReports,
            alMatrixTopNControlDuration,
            alMatrixTopNControlRequestedSize,
            alMatrixTopNControlGrantedSize,
            alMatrixTopNControlStartTime,
            alMatrixTopNControlOwner, alMatrixTopNControlStatus,
            alMatrixTopNProtocolDirLocalIndex,
            alMatrixTopNSourceAddress, alMatrixTopNDestAddress,
            alMatrixTopNAppProtocolDirLocalIndex,
            alMatrixTopNPktRate, alMatrixTopNReversePktRate,
            alMatrixTopNOctetRate, alMatrixTopNReverseOctetRate }
    STATUS  current
    DESCRIPTION
        "Counts the amount of traffic, by protocol, sent between each
         pair of network addresses discovered by the
        probe.  Implementation of this group requires implementation
```

```
      of the Network-Layer Matrix Group."
  ::= { rmon2MIBGroups 7 }

usrHistoryGroup OBJECT-GROUP



  OBJECTS { usrHistoryControlObjects,
            usrHistoryControlBucketsRequested,
            usrHistoryControlBucketsGranted,
            usrHistoryControlInterval,
            usrHistoryControlOwner, usrHistoryControlStatus,
            usrHistoryObjectVariable, usrHistoryObjectSampleType,
            usrHistoryIntervalStart, usrHistoryIntervalEnd,
            usrHistoryAbsValue, usrHistoryValStatus }
  STATUS  current
  DESCRIPTION
     "The usrHistoryGroup provides user-defined collection of
     historical information from MIB objects on the probe."
  ::= { rmon2MIBGroups 8 }

probeInformationGroup OBJECT-GROUP
  OBJECTS { probeCapabilities,
            probeSoftwareRev, probeHardwareRev, probeDateTime }
  STATUS  current
   DESCRIPTION
     "This group describes various operating parameters of the
     probe and controls the local time of the probe."
  ::= { rmon2MIBGroups 9 }

probeConfigurationGroup OBJECT-GROUP
  OBJECTS { probeResetControl, probeDownloadFile,
            probeDownloadTFTPServer, probeDownloadAction,
            probeDownloadStatus,
            serialMode, serialProtocol, serialTimeout,
            serialModemInitString, serialModemHangUpString,
            serialModemConnectResp, serialModemNoConnectResp,
            serialDialoutTimeout, serialStatus,
            netConfigIPAddress, netConfigSubnetMask,
            netConfigStatus, netDefaultGateway,
            trapDestCommunity, trapDestProtocol, trapDestAddress,
            trapDestOwner, trapDestStatus,
            serialConnectDestIpAddress, serialConnectType,
            serialConnectDialString, serialConnectSwitchConnectSeq,
            serialConnectSwitchDisconnectSeq,
            serialConnectSwitchResetSeq,
             serialConnectOwner, serialConnectStatus }
  STATUS  deprecated
```

```
  DESCRIPTION
     "This group controls the configuration of various operating
     parameters of the probe.  This group is not referenced by any
     MODULE-COMPLIANCE macro because it is 'grandfathered' from
     more recent MIB review rules that would require it."
  ::= { rmon2MIBGroups 10 }



rmon1EnhancementGroup OBJECT-GROUP
  OBJECTS { historyControlDroppedFrames, hostControlDroppedFrames,
            hostControlCreateTime, matrixControlDroppedFrames,
            matrixControlCreateTime, channelDroppedFrames,
            channelCreateTime, filterProtocolDirDataLocalIndex,
            filterProtocolDirLocalIndex }
  STATUS  current
  DESCRIPTION
     "This group adds some enhancements to RMON-1 that help
     management stations."
  ::= { rmon2MIBGroups 11 }

rmon1EthernetEnhancementGroup OBJECT-GROUP
  OBJECTS { etherStatsDroppedFrames,
 etherStatsCreateTime }
  STATUS  current
  DESCRIPTION
     "This group adds some enhancements to RMON-1 that help
     management stations."
  ::= { rmon2MIBGroups 12 }

rmon1TokenRingEnhancementGroup OBJECT-GROUP
  OBJECTS { tokenRingMLStatsDroppedFrames,
            tokenRingMLStatsCreateTime,
            tokenRingPStatsDroppedFrames, tokenRingPStatsCreateTime,
            ringStationControlDroppedFrames,
            ringStationControlCreateTime,
            sourceRoutingStatsDroppedFrames,
            sourceRoutingStatsCreateTime }
  STATUS  deprecated
  DESCRIPTION
     "This group adds some enhancements to RMON-1 that help
     management stations.  This group is not referenced by any
     MODULE-COMPLIANCE macro because it is 'grandfathered' from
     more recent MIB review rules that would require it."
  ::= { rmon2MIBGroups 13 }
END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-MIB
No license file was found, but licenses were detected in source scan.

```
SNA-NAU-MIB DEFINITIONS ::= BEGIN

-- This MIB module contains objects necessary
-- for management of the following SNA devices: PU types 1.0, 2.0, 2.1
-- and LU types 0, 1, 2, 3, 4, 7.  It also contains generic objects
-- which can be used to manage LU 6.2.

-- Naming conventions in this document:
-- The following names are used in object descriptors according to
-- SNA conventions.
-- The name 'PU' or 'Node' is used to describe Node type 1.0, 2.0 or
-- 2.1.
-- The name 'LU' is used to describe Logical Unit of type 0,1,2,3,
-- 4,7 or 6.2.



IMPORTS
    DisplayString, RowStatus, TimeStamp, InstancePointer
        FROM SNMPv2-TC

    Counter32, Gauge32, Integer32, mib-2,
    OBJECT-TYPE, MODULE-IDENTITY, NOTIFICATION-TYPE
        FROM SNMPv2-SMI

    MODULE-COMPLIANCE, OBJECT-GROUP
        FROM SNMPv2-CONF;


snanauMIB MODULE-IDENTITY
    LAST-UPDATED  "9405120900Z"

 ORGANIZATION  "IETF SNA NAU MIB Working Group"
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    DESCRIPTION
          "This is the MIB module for objects used to
           manage
 SNA devices."
::= { mib-2 34 }

-- The SNANAU MIB module contains an objects part and a conformance part.
-- Objects are organized into the following groups:
-- (1)snaNode group,
-- (2)snaLU group,
-- (3)snaMgtTools group.

snanauObjects   OBJECT IDENTIFIER ::= { snanauMIB 1 }

 snaNode      OBJECT IDENTIFIER ::= { snanauObjects 1 }
 snaLu        OBJECT IDENTIFIER ::= { snanauObjects 2 }
 snaMgtTools   OBJECT IDENTIFIER ::= { snanauObjects 3}


-- ****************************************************************
-- snaNode group
--
-- It contains Managed Objects related to any type of Node and
-- some specific objects for Node Type 2.0.
-- ****************************************************************


-- ****************************************************************
-- The following table contains generic Node configuration
-- parameters.
-- ****************************************************************

snaNodeAdminTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF SnaNodeAdminEntry
     MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION
```

"This table contains objects which describe the
configuration parameters for an SNA Node. Link
specific configuration objects are contained in
a separate MIB module (e.g., SNA DLC MIB)
corresponding to the link type.
The table snaNodeAdminLinkTable contains objects
which identify the relationship between node instances
and link instances.

The entries (i.e., rows) in this table can be created
by either an Agent or a Management Station.
The Management Station can do this through setting
the appropriate value in the snaNodeAdminRowStatus.

The snaNodeAdminRowStatus object describes the
status of an entry and is used to change the status
of an entry. The entry is deleted
by an Agent based
on the value of the snaNodeAdminRowStatus.

The snaNodeAdminState object describes the desired
operational state of a Node and is used to change the
operational state of a Node. For example, such
information may be obtained from a configuration file.

How an Agent or a Management Station obtains the
initial value of each object at creation time is an
implementation specific issue.

For each entry in this table, there is a corresponding
entry in the snaNodeOperTable.
While the objects in this table describe the desired
or configured operational values of the SNA Node, the
actual runtime values are contained in
snaNodeOperTable."
::= { snaNode 1 }

snaNodeAdminEntry OBJECT-TYPE
SYNTAX SnaNodeAdminEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"An entry contains the configuration parameters for
one SNA Node instance. The objects in the entry
have read-create access.
An entry can be created, modified or deleted. The
object snaNodeAdminRowStatus is used (i.e., set) to
create or delete a row entry."

```
    INDEX  { snaNodeAdminIndex }
    ::= { snaNodeAdminTable 1 }

SnaNodeAdminEntry ::= SEQUENCE {
    snaNodeAdminIndex
        Integer32,
    snaNodeAdminName
        DisplayString,
    snaNodeAdminType
        INTEGER,
    snaNodeAdminXidFormat
        INTEGER,
    snaNodeAdminBlockNum
        DisplayString,
    snaNodeAdminIdNum
        DisplayString,
    snaNodeAdminEnablingMethod
        INTEGER,
    snaNodeAdminLuTermDefault
        INTEGER,
    snaNodeAdminMaxLu

   Integer32,
    snaNodeAdminHostDescription
        DisplayString,
    snaNodeAdminStopMethod
        INTEGER,
    snaNodeAdminState
        INTEGER,
    snaNodeAdminRowStatus
        RowStatus
    }

snaNodeAdminIndex OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  not-accessible
    STATUS  current
    DESCRIPTION
        "Index used to uniquely identify each Node instance.
        If an Agent creates the entry, then it will assign
        this number otherwise a Management Station
        generates a random number when it reserves the
        entry for creation."
    ::= { snaNodeAdminEntry 1 }

snaNodeAdminName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(0..17))
    MAX-ACCESS  read-create
```

```
        STATUS  current
        DESCRIPTION
                "The value indicates the desired name of the
                Node for use during Node activation.

      In Type 2.1 networks, this is a fully-qualified name,
                meaning that the Node name is preceded by the NetId (if
                present) with a period as the delimiter.

                A write operation to this object will
                not change the operational value reflected
                in snaNodeOperName until the Node has
                been re-activated (e.g., after the next initialization
                of the SNA services)."
        ::= { snaNodeAdminEntry 2 }

    snaNodeAdminType OBJECT-TYPE
        SYNTAX  INTEGER {
                other(1),
                pu10(2),
                pu20(3),
                t21len(4),
                endNode(5),
                networkNode(6)
                }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
                "The value indicates the type of SNA Node.

                A write operation to this object will
                not change the operational value reflected

     in snaNodeOperType until the Node has
                been re-activated (e.g., after the next initialization
                of the SNA services)."
        ::= { snaNodeAdminEntry 3 }

    snaNodeAdminXidFormat OBJECT-TYPE
        SYNTAX  INTEGER  {
                format0(1),
                format1(2),
                format3(3)
                }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
                "The value indicates the type of XID format used for
```

```
            this Node.  Note that there is no format type 2.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperAdminXidFormat until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 4 }

snaNodeAdminBlockNum OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(3))
        MAX-ACCESS  read-create
        STATUS
    current
        DESCRIPTION
            "The value indicates the block number for this Node
            instance.  It is the first 3 hexadecimal digits of the
            SNA Node id.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperBlockNum until the Node has
            been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 5 }

snaNodeAdminIdNum OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(5))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the ID number for this Node
            instance.  This is the last 5 hexadecimal digits of
            the SNA Node id.

            A write operation to this object will
            not change the operational value reflected
            in snaNodeOperIdNum until the Node has
             been re-activated (e.g., after the next initialization
            of the SNA services)."
        ::= { snaNodeAdminEntry 6 }

snaNodeAdminEnablingMethod OBJECT-TYPE
        SYNTAX  INTEGER {
            other (1),
            startup (2),
            demand (3),
            onlyMS (4)
```

```
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates how the Node should be
            activated for the first time.
            The values have the following meanings:

            other (1)  - may be used for proprietary methods
              not listed in this enumeration,
            startup (2) - at SNA services' initialization time
              (this is the default),
            demand (3) - only when LU is requested by application,
                    or
            onlyMS (4) - by a Management Station only.

            A  write operation
    to this object may immediately
            change the operational value reflected
            in snaNodeOperEnablingMethod depending
            on the Agent implementation.  If the Agent
            implementation accepts immediate changes, then the
            behavior of the Node changes immediately and not only
            after the next system startup of the SNA services.
            An immediate change may only apply when the
            current value 'demand (3)' is changed to 'onlyMS (4)'
            and vice versa."
        ::= { snaNodeAdminEntry 7 }

    snaNodeAdminLuTermDefault OBJECT-TYPE
        SYNTAX  INTEGER {
            unbind (1),
            termself (2),
            rshutd (3),
            poweroff(4)
            }
         MAX-ACCESS  read-create
         STATUS  current
         DESCRIPTION
            "The value indicates the desired default method
            used to deactivate LUs for this Node
             For LU6.2s, 'unbind(1)' is the only valid value.

            unbind(1) -   terminate the LU-LU session by sending
                  an SNA UNBIND request.
            termself(2) - terminate the LU-LU session by sending
                  an SNA TERM-SELF (Terminate Self) request on
                  the SSCP-LU session. The SSCP will inform the
```

remote session LU partner to send an UNBIND
request to terminate the session.

rshutd(3) - terminate the LU-LU session by sending
an SNA RSHUTD (Request ShutDown) request to
the remote session LU partner. The remote LU
will then send an UNBIND request to terminate
the session.

poweroff(4) - terminate the LU-LU session by sending
either an SNA LUSTAT (LU Status) request on
the LU-LU
session or an SNA NOTIFY request on
the SSCP-LU session indicating that the LU has
been powered off. Sending both is also
acceptable. The result should be that the
remote session LU partner will send an UNBIND
to terminate the session.

The default behavior indicated by the value of this
object may be overridden for an LU instance. The
override is performed by setting the snaLuAdminTerm
object instance in the snaLuAdminTable to the desired
value.

A write operation to this object may immediately
change the operational value reflected
in snaNodeOperLuTermDefault depending
on the Agent implementation."
::= { snaNodeAdminEntry 8 }

snaNodeAdminMaxLu OBJECT-TYPE
SYNTAX Integer32
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"The maximum number of LUs that may be
activated for this Node. For PU2.1, this object
refers to the number of dependent LUs.

A write operation to this object will
not change the operational value reflected
in snaNodeOperMaxLu until the Node has
been re-activated (e.g., after the next initialization
of the SNA services)."
::= { snaNodeAdminEntry 9 }

snaNodeAdminHostDescription OBJECT-TYPE
SYNTAX DisplayString (SIZE(0..128))
MAX-ACCESS read-create

```
        STATUS  current
        DESCRIPTION
                "The value identifies the remote host associated
                with this Node.
                Since SSCP Id's may not be unique
                across hosts, the host description
                is required to uniquely identify the SSCP.
                This object
 is only applicable to PU2.0 type
                Nodes. If the remote host is unknown, then the
                value is the null string.

                A write operation to this object may immediately
                change the operational value reflected
                in snaNodeOperHostDescription depending
                on the Agent implementation."
        ::= { snaNodeAdminEntry 10 }

snaNodeAdminStopMethod OBJECT-TYPE
        SYNTAX  INTEGER {
                other (1),
                normal (2),
                immed (3),
                force (4)
                }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
                "The value indicates the desired method to be used
                by the Agent to stop a Node (i.e., change the Node's
                operational state to inactive(1) ).

                The values have the following meaning:

                other (1) - used for proprietary
                     methods not listed in this enumeration.
                normal(2) - deactivate only when there is no more
                    activity on this Node (i.e., all data flows
                    have been completed and all sessions
                    have been terminated).
                immed(3)  - deactivate immediately regardless of
                    current activities on this Node. Wait for
                    deactivation responses (from remote Node)
                    before changing the Node state to inactive.
                force(4)  - deactivate immediately regardless of
                    current activities on this Node. Do not wait
                    for deactivation responses (from remote Node)
                    before changing the Node state to inactive.
```

```
            A write operation to this object may immediately
            change the operational value reflected
            in snaNodeOperStopMethod
 depending
            on the Agent implementation."
        ::= { snaNodeAdminEntry 11 }

snaNodeAdminState OBJECT-TYPE
        SYNTAX  INTEGER {
            inactive (1),
            active (2)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value indicates the desired operational
             state of the SNA Node. This object is used
             by the Management Station to
             activate or deactivate the Node.

            If the current value in snaNodeOperState is
            'active (2)', then setting this object to
            'inactive (1)' will initiate the Node shutdown
            process using the method indicated
            by snaNodeOperStopMethod.

            If the current value in snaNodeOperState is
            'inactive (1)', then setting this object to
            'active (2)'
 will initiate the
            Node's activation.

            A Management Station can always set this object to
            'active (2)' irrespective of the value in the
            snaOperEnablingMethod."
        ::= { snaNodeAdminEntry 12 }

snaNodeAdminRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This object is used by a Management Station to
            create or delete the row entry in the
            snaNodeAdminTable following
            the RowStatus textual convention.
```

```
                Upon successful creation of
                the row, an Agent automatically creates a
                corresponding entry in the snaNodeOperTable with
                snaNodeOperState equal to 'inactive (1)'.

                Row deletion can be Management Station or Agent
                initiated:
                (a) The Management
 Station can set the value to
                'destroy (6)' only when the value of
                snaNodeOperState of this Node instance is
                'inactive (1)'. The Agent will then delete the rows
                corresponding to this Node instance from the
                snaNodeAdminTable and the snaNodeOperTable.
                (b) The Agent detects that a row is in the
                'notReady (3)' state for greater than a
                default period of 5 minutes.
                (c) All rows with the snaNodeAdminRowStatus object's
                value of 'notReady (3)' will be removed upon the
                next initialization of the SNA services."
        ::= { snaNodeAdminEntry 13 }


-- ****************************************************************
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeAdminTable.
-- ****************************************************************

snaNodeAdminTableLastChange
 OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value indicates the timestamp
                (e.g., the Agent's sysUpTime value) of the last
                change made to any object in the snaNodeAdminTable,
                including row deletions/additions (e.g., changes to
                snaNodeAdminRowStatus values).

                This object can be used to reduce frequent
                retrievals of the snaNodeAdminTable by a Management
                Station. It is expected that a Management Station
                will periodically poll this object and compare its
                current value with the previous one. A difference
                indicates that some Node configuration information
                has been changed. Only then will the Management
                Station retrieve the entire table."
```

```
        ::= { snaNode
 2 }


-- ****************************************************************
-- The following table contains Node operational parameters.
-- ****************************************************************

snaNodeOperTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaNodeOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "This table contains the dynamic parameters which
                have read-only access. These objects reflect the
                actual status of the Node. The entries in this
                table cannot be created or modified by a
                Management Station.
                This table augments the snaNodeAdminTable."
        ::= { snaNode 3 }

snaNodeOperEntry OBJECT-TYPE
        SYNTAX  SnaNodeOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "The entry contains parameters which describe the
                state of
 one Node. The entries are created by the
                Agent. They have read-only access."
        AUGMENTS   { snaNodeAdminEntry }
        ::= { snaNodeOperTable 1 }

SnaNodeOperEntry ::= SEQUENCE {
        snaNodeOperName
                DisplayString,
        snaNodeOperType
                INTEGER,
        snaNodeOperXidFormat
                INTEGER,
        snaNodeOperBlockNum
                DisplayString,
        snaNodeOperIdNum
                DisplayString,
        snaNodeOperEnablingMethod
                INTEGER,
        snaNodeOperLuTermDefault
                INTEGER,
```

```
        snaNodeOperMaxLu
                Integer32,
        snaNodeOperHostDescription
                DisplayString,
        snaNodeOperStopMethod
                INTEGER,
        snaNodeOperState
                INTEGER,
        snaNodeOperHostSscpId
                OCTET STRING,
        snaNodeOperStartTime
                TimeStamp,
        snaNodeOperLastStateChange
                 TimeStamp,
        snaNodeOperActFailures
                Counter32,
        snaNodeOperActFailureReason
                INTEGER
        }

snaNodeOperName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..17))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value identifies the current name of the Node.
            In Type 2.1 networks, this
            is a fully-qualified name, meaning that the Node name
            is preceded by the NetId (if present) with a period
            as the delimiter."
        ::= { snaNodeOperEntry 1 }

snaNodeOperType OBJECT-TYPE
        SYNTAX  INTEGER {
                other(1),
                pu10(2),
                pu20(3),
                t21LEN(4),
                endNode(5),
                networkNode(6)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                 "The value identifies the current type of the Node."
        ::= { snaNodeOperEntry 2 }

snaNodeOperXidFormat OBJECT-TYPE
```

```
        SYNTAX  INTEGER  {
                format0 (1),
                format1 (2),
                format3 (3)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the type of XID format currently
                 used for this Node.
                 Note that there is no format type 2."
        ::= { snaNodeOperEntry 3 }

snaNodeOperBlockNum OBJECT-TYPE
        SYNTAX DisplayString (SIZE(3))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the block number for this Node
                instance. It is the first 3 hexadecimal digits
                of the SNA Node id."
        ::= { snaNodeOperEntry 4 }

snaNodeOperIdNum OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(5))
         MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value identifies the ID number for this Node
                instance.  This is the last 5 hexadecimal digits of
                the SNA Node id."
        ::= { snaNodeOperEntry 5 }

snaNodeOperEnablingMethod OBJECT-TYPE
        SYNTAX  INTEGER {
                other (1),
                startup (2),
                demand (3),
                onlyMS (4)
                }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value indicates how the Node is activated for
                the first time.
                The values have the following meanings:
                  other (1)   - not at boot time, LU activation
                     or by a Management Station;
```

```
                startup (2) - at SNA services' initialization
                  time (this is the default),

    demand (3)  - only when LU is requested by
                  application,
                onlyMS (4) - by a network Management Station
                  only."
      ::= { snaNodeOperEntry 6 }

snaNodeOperLuTermDefault OBJECT-TYPE
      SYNTAX  INTEGER {
            unbind (1),
            termself (2),
            rshutd (3),
            poweroff (4)
            }
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION
          "The value identifies the default method used to
          deactivate LUs for this Node.
          For LU6.2s, 'unbind(1)' is the only valid value.

          unbind(1) -   terminate the LU-LU session by sending
                an SNA UNBIND request.
          termself(2) - terminate the LU-LU session by sending
                an SNA TERM-SELF (Terminate Self) request on
                the SSCP-LU session. The SSCP will inform
the
                remote session LU partner to send an UNBIND
                request to terminate the session.
          rshutd(3) -   terminate the LU-LU session by sending
                an SNA RSHUTD (Request ShutDown) request to
                the remote session LU partner. The remote LU
                will then send an UNBIND request to terminate
                the session.
          poweroff(4) - terminate the LU-LU session by sending
                either an SNA LUSTAT (LU Status) request on
                the LU-LU session or an SNA NOTIFY request on
                the SSCP-LU session indicating that the LU has
                been powered off. Sending both is also
                acceptable. The result should be that the
                remote session LU partner will send an UNBIND
                to terminate the session.

          This object
describes the default behavior for this
          Node; however, it is possible that for a specific LU
```

```
            the behavior indicated by the snaLuOperTerm object is
            different."
        ::= { snaNodeOperEntry 7 }

snaNodeOperMaxLu OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the current, maximum number
            of LUs that are activated for this Node. For PU2.1,
            this object refers to the number of dependent LUs."
        ::= { snaNodeOperEntry 8 }

snaNodeOperHostDescription OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..128))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the remote host currently
             associated with this Node.
             Since SSCP Id's may not be unique
             across hosts, the
 host description
             is required to uniquely identify the SSCP."
        ::= { snaNodeOperEntry 9 }

snaNodeOperStopMethod OBJECT-TYPE
        SYNTAX  INTEGER {
            other (1),
            normal (2),
            immed (3),
            force (4)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value identifies the current Node shutdown
            method to be used by the Agent to stop the Node.
            When the Agent changes the Node's state to 'inactive
            (1)', the Agent must use the shutdown method
            indicated by this object.

            The values have the following meaning:

            other (1) - proprietary method not listed in this
                    enumeration
            normal(2) - deactivate only when there is no more
```

```
                activity on this Node (i.e., all
data flows
                have been completed and all sessions have
                been terminated).
            immed(3)  - deactivate immediately regardless of
                current activities on this Node. Wait for
                deactivation responses (from remote Node)
                before changing the Node state to inactive.
            force(4)  - deactivate immediately regardless of
                current activities on this Node. Do not wait
                for deactivation responses (from remote Node)
                before changing the Node state to inactive.

            Note that a write operation to
            snaNodeAdminOperStopMethod may immediately change
            the value of snaNodeOperStopMethod depending on
            the Agent implementation."
        ::= { snaNodeOperEntry 10 }

snaNodeOperState OBJECT-TYPE
        SYNTAX  INTEGER {

       inactive (1),
            active (2),
            waiting (3),
            stopping (4)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The current state of the Node.
            The values have the following meanings:
              inactive (1), a row representing the Node has
                been created in the AdminTable
                and, the Node is ready for activation -or-
                an active Node has been stopped -or-
                a waiting Node has returned to the inactive
                state.
              waiting (3), a request to have the Node activated
                has been issued, and the Node is pending
                activation.
              active (2), the Node is ready and operating.
              stopping (4), the request to stop the Node has
                been
 issued while the StopMethod normal
                or immediate is used."
        ::= { snaNodeOperEntry 11 }
```

```
snaNodeOperHostSscpId OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(0..6))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This value identifies the current SSCP Id
                 associated with the Node. This object is only
                 applicable to PU 2.0s. If the Node
                 is not a PU 2.0 type, then this object contains a
                 zero length string."
        ::= { snaNodeOperEntry 12 }

snaNodeOperStartTime OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The timestamp (e.g, the Agent's sysUpTime value)
                 at the Node activation."
        ::= { snaNodeOperEntry 13 }

snaNodeOperLastStateChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only

        STATUS  current
        DESCRIPTION
                "The timestamp (e.g., the Agent's sysUpTime value)
                at the last state change of the Node."
        ::= { snaNodeOperEntry 14 }

snaNodeOperActFailures OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This value identifies the number of failed Node
                activation attempts."
        ::= { snaNodeOperEntry 15 }

snaNodeOperActFailureReason OBJECT-TYPE
        SYNTAX  INTEGER {
                other (1),
                linkFailure (2),
                noResources (3),
                badConfiguration (4),
                internalError (5)
                }
```

```
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The value indicates the reason for the activation
                failure.  The value 'other (1)' indicates a reason
                not
 listed in the enumeration. This object
                will be sent in the trap snaNodeActFailTrap."
        ::= { snaNodeOperEntry 16 }


-- ****************************************************************
-- The following object is updated when there is a change to
-- the value of snaNodeOperState in any row or a row is
-- added/deleted from the snaNodeOperTable via the snaNodeAdminTable.
-- ****************************************************************

snaNodeOperTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The timestamp (e.g., the Agent's sysUpTime value)
                at the last change made to any object in the
                snaNodeOperTable, including row deletions/additions
                made as a result of changes to the
                snaNodeAdminRowStatus object.

                This object can be used to reduce frequent
                retrievals
 of the snaNodeOperTable by a Management
                Station. It is expected that a Management Station
                will periodically poll this object and compare its
                current value with the previous one. A difference
                indicates that some Node operational information
                has been changed. Only then will the Management
                Station retrieve the entire table."
        ::= { snaNode 4 }


-- ****************************************************************
-- The following table contains PU 2.0 statistics dynamic parameters.
-- ****************************************************************

snaPu20StatsTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaPu20StatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
```

```
        DESCRIPTION
                "This table contains the dynamic parameters which
                have read-only access. The entries in this table
                correspond
 to PU 2.0 entries in the snaNodeOperTable
                and cannot be created by a Management Station."
        ::= { snaNode 5 }

snaPu20StatsEntry OBJECT-TYPE
        SYNTAX  SnaPu20StatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "The entry contains parameters which describe the
                statistics for one PU 2.0. They have read-only
                access.
                The counters represent traffic for all kinds
                of sessions: LU-LU, SSCP-PU, SSCP-LU.

                Each Node of PU Type 2.0 from the snaNodeAdminTable
                has one entry in this table and the index used
                here has the same value as snaNodeAdminIndex of
                that PU.  The entry is created by the Agent."
        INDEX   { snaNodeAdminIndex }
        ::= { snaPu20StatsTable 1 }

SnaPu20StatsEntry ::= SEQUENCE {
        snaPu20StatsSentBytes
                Counter32,
         snaPu20StatsReceivedBytes
                Counter32,
        snaPu20StatsSentPius
                Counter32,
        snaPu20StatsReceivedPius
                Counter32,
        snaPu20StatsSentNegativeResps
                Counter32,
        snaPu20StatsReceivedNegativeResps
                Counter32,
        snaPu20StatsActLus
                Gauge32,
        snaPu20StatsInActLus
                Gauge32,
        snaPu20StatsBindLus
                Gauge32
        }

snaPu20StatsSentBytes OBJECT-TYPE
```

```
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of bytes sent by this Node."
        ::= { snaPu20StatsEntry 1 }

snaPu20StatsReceivedBytes OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of bytes received by this Node."
        ::= { snaPu20StatsEntry
 2 }

snaPu20StatsSentPius OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of PIUs sent by this Node."
        ::= { snaPu20StatsEntry 3 }

snaPu20StatsReceivedPius OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of PIUs received by this Node."
        ::= { snaPu20StatsEntry 4 }

snaPu20StatsSentNegativeResps OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of negative responses sent
            by this Node."
        ::= { snaPu20StatsEntry 5 }

snaPu20StatsReceivedNegativeResps OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of negative responses received
```

```
        by this Node."
        ::= { snaPu20StatsEntry 6 }

snaPu20StatsActLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                received and responded to ACTLU from the host."
        ::= { snaPu20StatsEntry 7 }

snaPu20StatsInActLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                not received an ACTLU from the host.  This is
                possible if the number of configured LUs exceeds
                that on the host."
        ::= { snaPu20StatsEntry 8 }

snaPu20StatsBindLus OBJECT-TYPE
        SYNTAX  Gauge32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The number of LUs on this PU which have
                received and acknowledged
 a BIND request from the
                host."
        ::= { snaPu20StatsEntry 9 }

-- ****************************************************************
-- The following table contains the association between Nodes and
-- link identifiers.
-- It is used for configuration purposes.
-- ****************************************************************

snaNodeLinkAdminTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaNodeLinkAdminEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "This table contains the references to link
                specific tables. If a Node is configured for
                multiple links, then the Node will have
```

```
            multiple entries in this table.
            The entries in this table can be generated
            initially, after initialization of SNA service,
            by the Agent which uses information from
            Node configuration file.

          Subsequent modifications of parameters,
            creation of new Nodes link entries and deletion
            of entries is possible.
            The modification to this table can be
            saved in the Node configuration file for the
            next initialization of SNA service, but the mechanism
            for this function is not defined here."
        ::= { snaNode 6 }

snaNodeLinkAdminEntry OBJECT-TYPE
        SYNTAX  SnaNodeLinkAdminEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Entry contains the configuration information that
            associates a Node instance to one link instance.
            The objects in the entry have read-create access.
            Entry can be created, modified or deleted.
            The object snaNodeLinkAdminRowStatus is used (set)
            to create or delete an entry.
            The object
 snaNodeLinkAdminSpecific can be set
            later, after the entry has been created."
        INDEX   { snaNodeAdminIndex,
                  snaNodeLinkAdminIndex }
        ::= { snaNodeLinkAdminTable 1 }

SnaNodeLinkAdminEntry ::= SEQUENCE {
        snaNodeLinkAdminIndex
            Integer32,
        snaNodeLinkAdminSpecific
            InstancePointer,
        snaNodeLinkAdminMaxPiu
            Integer32,
        snaNodeLinkAdminRowStatus
            RowStatus
        }

snaNodeLinkAdminIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
```

```
        DESCRIPTION
            "This value is used to index the instances of objects.
            If an Agent creates the entry, then it will assign
            this number otherwise a Management Station
            generates a random number when it reserves the
            entry for creation."
        ::=
 { snaNodeLinkAdminEntry 1 }

snaNodeLinkAdminSpecific OBJECT-TYPE
        SYNTAX  InstancePointer
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value points to the row in the table
            containing information on the link instance.
            (e.g., the sdlcLSAdminTable of
            the SNA DLC MIB module)."
        ::= { snaNodeLinkAdminEntry 2 }

snaNodeLinkAdminMaxPiu OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies the maximum number of octets
            that can be exchanged by this Node in one
            Path Information Unit (PIU)."
        ::= { snaNodeLinkAdminEntry 3 }

snaNodeLinkAdminRowStatus OBJECT-TYPE
        SYNTAX  RowStatus
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This object is used by a
 Management Station to
            create or delete the row entry in the
            snaNodeLinkAdminTable.
            To activate a row, a Management Station sets the value
            to 'active (1)' or 'notReady (3)'.  Upon successful
            creation of the row, the Agent automatically creates
            a corresponding entry in the snaNodeLinkOperTable.

            Row deletion can be Management Station or Agent
            initiated:
            (a) The Management Station can set the value to
            'destroy (6)' only when the value of
```

```
            snaNodeLinkOperState of this Link
            instance is 'inactive (1)'. The Agent will then
            delete the row corresponding to this Link
            instance from snaNodeLinkOperTable and
            from snaNodeLinkAdminTable.
            (b) The Agent detects that a row is in the
            'notReady (3)' state for greater than a

  default period of 5 minutes.
            (c) The Agent will not include a row with RowStatus=
            'notReady (3)', after SNA system re-initialization
             (e.g., reboot)."
        ::= { snaNodeLinkAdminEntry 4 }


-- ****************************************************************
-- The following object is updated when there is a change to
-- the value of any object in the snaNodeLinkAdminTable.
-- ****************************************************************

snaNodeLinkAdminTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "The timestamp (e.g., the Agent's sysUpTime value)
                at the last
                change made to any object in the snaNodeLinkAdminTable,
                including row deletions/additions (i.e., changes
                to the snaNodeLinkAdminRowStatus object).

                This object can be used to reduce
 frequent
                retrievals of the snaNodeLinkAdminTable by a
                Management Station. It is expected that a
                Management Station will periodically poll this
                object and compare its current value with the
                previous one.
                A difference indicates that some Node operational
                information has been changed. Only then will the
                Management Station retrieve the entire table."
        ::= { snaNode 7 }


-- ****************************************************************
-- The following table contains the association between
-- Nodes and link identifiers.
-- It provides the current status.
```

```
-- ****************************************************************

snaNodeLinkOperTable OBJECT-TYPE
        SYNTAX  SEQUENCE OF SnaNodeLinkOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "This table contains all references
 to link
                specific tables for operational parameters.
                If a Node is configured for multiple links,
                then the Node will have multiple entries in
                this table. This table augments the
                snaNodeLinkAdminTable."
        ::= { snaNode 8 }

snaNodeLinkOperEntry OBJECT-TYPE
        SYNTAX  SnaNodeLinkOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
                "Entry contains all current parameters for one
                Node link. The objects in the entry have
                read-only access."
        AUGMENTS   { snaNodeLinkAdminEntry }
        ::= { snaNodeLinkOperTable 1 }

SnaNodeLinkOperEntry ::= SEQUENCE {
        snaNodeLinkOperSpecific
                InstancePointer,
        snaNodeLinkOperMaxPiu
                Integer32
        }

snaNodeLinkOperSpecific OBJECT-TYPE
        SYNTAX  InstancePointer
        MAX-ACCESS
  read-only
        STATUS  current
        DESCRIPTION
                "This value points to the row in the table
                containing information on the link instance.
                (e.g., the sdlcLSOperTable of
                the SNA DLC MIB module)."
        ::= { snaNodeLinkOperEntry 1 }

snaNodeLinkOperMaxPiu OBJECT-TYPE
        SYNTAX  Integer32
```

```
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "Maximum number of octets that can
                be exchanged by this Node in one Path
                Information Unit (PIU)."
        ::= { snaNodeLinkOperEntry 2 }


-- ****************************************************************
-- The following object is updated when a row is added/deleted
-- from the snaNodeLinkOperTable.
-- ****************************************************************

snaNodeLinkOperTableLastChange OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only

 STATUS  current
        DESCRIPTION
                "The timestamp of the last
                change made to any object in the snaNodeLinkOperTable,
                including row deletions/additions.

                This object can be used to reduce frequent
                retrievals of the snaNodeLinkOperTable by a
                Management Station. It is expected that a
                Management Station will periodically poll this
                object and compare its current value with the
                previous one.
                A difference indicates that some Node operational
                information has been changed. Only then will the
                Management Station retrieve the entire table."
        ::= { snaNode 9 }

-- ****************************************************************
-- Traps
-- ****************************************************************

snaNodeTraps OBJECT IDENTIFIER ::= { snaNode 10 }

snaNodeStateChangeTrap
 NOTIFICATION-TYPE
        OBJECTS  { snaNodeOperName,
                snaNodeOperState }
        STATUS  current
        DESCRIPTION
                "This trap indicates that the operational state
```

```
            (i.e., value of the snaNodeOperState object) of a Node
             has changed. The following variables are returned:
              snaNodeOperName - current name of the Node,
                with the instance identifying the Node; and,
              snaNodeOperState - current state after
                the change."
      ::= { snaNodeTraps 1 }

snaNodeActFailTrap NOTIFICATION-TYPE
      OBJECTS  { snaNodeOperName,
            snaNodeOperState,
            snaNodeOperActFailureReason }
      STATUS  current
      DESCRIPTION
            "This trap indicates a Node activation failure.
            The value of snaNodeOperState indicates the current
            state after the activation attempt.
             The value of snaNodeOperActFailureReason indicates
            the failure reason."
      ::=  { snaNodeTraps 2 }


-- ****************************************************************
-- snaLu group
--
-- It contains Managed Objects related to LUs in general and some
-- specific for LUs of type 0, 1, 2, 3.
-- ****************************************************************


-- ****************************************************************
-- The following table contains LU configuration parameters.
-- ****************************************************************

snaLuAdminTable OBJECT-TYPE
     SYNTAX  SEQUENCE OF SnaLuAdminEntry
     MAX-ACCESS  not-accessible
     STATUS  current
     DESCRIPTION
           "This table contains LU configuration information.
           The rows in this table can be created and deleted
           by a Management Station.
           Only objects which are common to all types of LUs

           are included in this table."
     ::= { snaLu 1 }

snaLuAdminEntry OBJECT-TYPE
```

```
        SYNTAX  SnaLuAdminEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains configuration variables for an LU."
        INDEX   { snaNodeAdminIndex, snaLuAdminLuIndex }
        ::= { snaLuAdminTable 1 }

    SnaLuAdminEntry ::= SEQUENCE {
        snaLuAdminLuIndex
            Integer32,
        snaLuAdminName
            DisplayString,
        snaLuAdminSnaName
            DisplayString,
        snaLuAdminType
            INTEGER,
        snaLuAdminDepType
            INTEGER,
        snaLuAdminLocalAddress
            OCTET STRING,
        snaLuAdminDisplayModel
            INTEGER,
        snaLuAdminTerm
            INTEGER,
        snaLuAdminRowStatus
            RowStatus
        }

    snaLuAdminLuIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
         DESCRIPTION
            "This value identifies the unique index for an
             LU instance within a Node."
        ::= { snaLuAdminEntry 1 }

    snaLuAdminName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..48))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies the user configurable
            name for this LU. If a name is not assigned to the LU,
            then this object contains a zero length string.

            A write operation to this object will
```

```
            not change the operational value reflected
            in snaLuOperName until the Node has
            been re-activated (e.g., after the next
            initialization of the SNA services)."
        ::= { snaLuAdminEntry 2 }

snaLuAdminSnaName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(1..17))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies
 the SNA LU name
            used in exchange of SNA data.

            A write operation to this object will
            not change the operational value reflected
            in snaLuOperSnaName until the Node has
            been re-activated (e.g., after the next
            initialization of the SNA services)."
        ::= { snaLuAdminEntry 3 }

snaLuAdminType OBJECT-TYPE
        SYNTAX  INTEGER {
            other(1),
            lu0(2),
            lu1(3),
            lu2(4),
            lu3(5),
            lu4(6),
            lu62(7),
            lu7(8)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies the LU type.

            A write operation to this object will
            not change the operational value reflected
            in snaLuOperAdminType until the Node has
            been re-activated (e.g., after the next
             initialization of the SNA services)."
        ::= { snaLuAdminEntry 4 }

snaLuAdminDepType OBJECT-TYPE
        SYNTAX  INTEGER {
            dependent(1),
```

```
            independent(2)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies whether the LU is
            dependent or independent.

            A write operation to this object will
            not change the operational value reflected
            in snaLuOperDepType until the Node has
            been re-activated (e.g., after the next
            initialization of the SNA services)."
        ::= { snaLuAdminEntry 5 }

    snaLuAdminLocalAddress OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(1))
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The local address for this LU is a byte with a value
            ranging from 0 to 254.For dependent LUs, this value
             ranges from 1 to 254 and for independent LUs this
            value is always 0.

            A write operation to this object will not change the
            operational value reflected in snaLuOperLocalAddress
            until the Node has been re-activated (e.g., after the
            next initialization of the SNA services)."
        ::= { snaLuAdminEntry 6 }

    snaLuAdminDisplayModel OBJECT-TYPE
        SYNTAX  INTEGER {
            invalid(1),
            model2A(2),
            model2B(3),
            model3A(4),
            model3B(5),
            model4A(6),
            model4B(7),
            model5A(8),
            model5B(9),
            dynamic(10)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "The value of this object identifies the  model type
```

```
            and screen size of the terminal connected to the host.
            This
 is only valid for LU Type 2.  The values have
            the following meaning:

            model2A(2) - Model 2 (24 rows x 80 cols) with base
                attributes
            model2B(3) - Model 2 (24 rows x 80 cols) with
                extended attributes
            model3A(4) - Model 3 (32 rows x 80 cols) with base
                attributes
            model3B(5) - Model 3 (32 rows x 80 cols) with extended
                attributes
            model4A(6) - Model 4 (43 rows x 80 cols) with base
                attributes
            model4B(7) - Model 4 (43 rows x 80 cols) with extended
                                attributes
            model5A(8) - Model 5 (27 rows x 132 cols) with base
                attributes
            model5B(9) - Model 5 (27 rows x 132 cols) with
                extended attributes
            dynamic(10) - Screen size determine with
 BIND and Read
                                Partition Query.

            In case this LU is not Type 2, then this object
            should contain the invalid(1) value."
        ::= { snaLuAdminEntry 7 }

snaLuAdminTerm OBJECT-TYPE
        SYNTAX  INTEGER {
            unbind (1),
            termself (2),
            rshutd (3),
            poweroff (4)
            }
        MAX-ACCESS  read-create
        STATUS  current
        DESCRIPTION
            "This value identifies the desired method for
            deactivation of this LU. This value overrides the
            default method (snaNodeOperLuTermDefault) for this
            Node.  For LU 6.2, only the value 'unbind (1)'
            applies.

            unbind(1) -   terminate the LU-LU session by sending
                an SNA UNBIND request.
            termself(2) - terminate the LU-LU session by sending
```

an SNA TERM-SELF
(Terminate Self) request on
the SSCP-LU session. The SSCP will inform the
remote session LU partner to send an UNBIND
request to terminate the session.
rshutd(3) - terminate the LU-LU session by sending
an SNA RSHUTD (Request ShutDown) request to
the remote session LU partner. The remote LU
will then send an UNBIND request to terminate
the session.
poweroff(4) - terminate the LU-LU session by sending
either an SNA LUSTAT (LU Status) request on
the LU-LU session or an SNA NOTIFY request on
the SSCP-LU session indicating that the LU has
been powered off. Sending both is also
acceptable. The result should be that the
remote session LU partner
will send an UNBIND
to terminate the session.

A write operation to this object may immediately
change the operational value reflected
in snaLuOperTerm depending
on the Agent implementation."
::= { snaLuAdminEntry 8 }

snaLuAdminRowStatus OBJECT-TYPE
SYNTAX RowStatus
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object is used by a Management Station to
create or delete the row entry in the
snaLuAdminTable.
To activate a row, the Management Station sets the
value to 'active (1)' or 'notReady (3)'.
Upon successful creation of the row, the Agent
automatically creates a corresponding entry in the
snaLuOperTable with snaLuOperState equal to
'inactive (1)'.
Row deletion can be Management Station
or Agent
initiated:
(a) The Management Station can set the value to
'destroy (6)' only when the value of snaLuOperState
of this LU instance is 'inactive (1)'. The Agent will
then delete the row corresponding to this LU
instance from snaLuAdminTable and

```
            from snaLuOperTable.
            (b) The Agent detects that a row is in the
            'notReady (3)' state for greater than a
            default period of 5 minutes.
            (c) The Agent will not create a row with RowStatus
            equal to 'notReady (3)', after SNA system
            re-initialization (e.g., reboot)."
        ::= { snaLuAdminEntry 9 }


-- ****************************************************************
-- The following table contains LU state dynamic parameters.
-- ****************************************************************

snaLuOperTable OBJECT-TYPE
        SYNTAX
    SEQUENCE OF SnaLuOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains dynamic runtime information and
            control variables relating to LUs.
            Only objects which are common to all types of LUs are
            included in this table. This table augments the
            snaLuAdminTable."
        ::= { snaLu 2 }

snaLuOperEntry OBJECT-TYPE
        SYNTAX  SnaLuOperEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains objects reflecting current information
            for an LU.
            Each entry is created by the Agent.  All entries
            have read-only access."
        AUGMENTS        { snaLuAdminEntry }
        ::= { snaLuOperTable 1 }

SnaLuOperEntry ::= SEQUENCE {
        snaLuOperName
            DisplayString,
        snaLuOperSnaName
            DisplayString,
        snaLuOperType

          INTEGER,
        snaLuOperDepType
```

```
            INTEGER,
        snaLuOperLocalAddress
            OCTET STRING,
        snaLuOperDisplayModel
            INTEGER,
        snaLuOperTerm
            INTEGER,
        snaLuOperState
            INTEGER,
        snaLuOperSessnCount
            Gauge32
        }

snaLuOperName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..48))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "User configurable name for this LU. If a name
            is not assigned, then this object contains a
            zero length string."
        ::= { snaLuOperEntry 1 }

snaLuOperSnaName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(1..17))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value identifies the current SNA LU name."
        ::= { snaLuOperEntry 2 }

snaLuOperType OBJECT-TYPE
        SYNTAX  INTEGER {
            other(1),
             lu0(2),
            lu1(3),
            lu2(4),
            lu3(5),
            lu4(6),
            lu62(7),
            lu7(8)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value identifies the current LU type."
        ::= { snaLuOperEntry 3 }
```

```
snaLuOperDepType OBJECT-TYPE
    SYNTAX  INTEGER {
        dependent(1),
        independent(2)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies whether the LU is currently
         dependent or independent.

        A write operation to this object will
        not change the operational value reflected
        in snaLuOperDepType until the Node has
        been re-activated (e.g., after the next
        initialization of the SNA services)."
    ::= { snaLuOperEntry 4 }

snaLuOperLocalAddress
 OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(1))
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The local address for this LU is a byte with a value
        ranging from 0 to 254. For dependent LUs, this value
        ranges from 1 to 254; for independent LUs this value
        is always 0.

        A write operation to this object will
        not change the operational value reflected
        in snaLuOperLocalAddress until the Node has
        been re-activated (e.g., after the next
        initialization of the SNA services)."
    ::= { snaLuOperEntry 5 }

snaLuOperDisplayModel OBJECT-TYPE
    SYNTAX  INTEGER {
        invalid(1),
        model2A(2),
        model2B(3),
        model3A(4),
        model3B(5),
        model4A(6),
        model4B(7),
        model5A(8),
        model5B(9),
```

```
            dynamic(10)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The screen model type of the terminal connected to
            the host. If this LU is not Type 2, then this
            object should contain the 'invalid(1)' value."
        ::= { snaLuOperEntry 6 }

    snaLuOperTerm OBJECT-TYPE
        SYNTAX  INTEGER {
            unbind (1),
            termself (2),
            rshutd (3),
            poweroff (4)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value identifies the current method for
            deactivation of this LU. This value overrides the
            default method (snaNodeOperLuTermDefault) for this
            Node.  For LU 6.2, only the value 'unbind (1)'
            applies.

            unbind(1) -   terminate the LU-LU session by sending
                an SNA UNBIND request.
             termself(2) - terminate the LU-LU session by sending
                an SNA TERM-SELF (Terminate Self) request on
                the SSCP-LU session. The SSCP will inform the
                remote session LU partner to send an UNBIND
                request to terminate the session.
            rshutd(3) -   terminate the LU-LU session by sending
                an SNA RSHUTD (Request ShutDown) request to
                the remote session LU partner. The remote LU
                will then send an UNBIND request to terminate
                the session.
            poweroff(4) - terminate the LU-LU session by sending
                either an SNA LUSTAT (LU Status) request on
                the LU-LU session or an SNA NOTIFY request on
                the SSCP-LU session indicating that the LU has
                been powered off. Sending both is also

               acceptable. The result should be that the
                remote session LU partner will send an UNBIND
                to terminate the session."
        ::= { snaLuOperEntry 7 }
```

```
snaLuOperState OBJECT-TYPE
    SYNTAX  INTEGER {
        inactive (1),
        active (2)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies the current operational state of
        this LU.
        It has different meanings for dependent and independent
        LUs.
        For dependent LUs the values indicate the following:
          inactive (1) - LU didn't receive ACTLU, or
              it received DACTLU, or received ACTLU and sent
              negative response.
          active (2) - LU received ACTLU and acknowledged
              positively.

        For independent LUs the values
 indicate the following:
          active (2) - the LU is defined and is able to send
              and receive BIND.
          inactive (1) - the LU has a session count equal
              to 0."
    ::= { snaLuOperEntry 8 }

snaLuOperSessnCount OBJECT-TYPE
    SYNTAX  Gauge32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of currently active LU-LU sessions of
        this LU.
        For the independent LU, if this object has value 0,
        it indicates that LU is inactive."
    ::= { snaLuOperEntry 9 }


-- ****************************************************************
-- The following table contains LU session status parameters.
-- ****************************************************************

snaLuSessnTable OBJECT-TYPE
    SYNTAX  SEQUENCE OF SnaLuSessnEntry
    MAX-ACCESS  not-accessible
    STATUS  current
```

```
        DESCRIPTION

       "This is a table containing objects which describe the
            operational state of LU sessions.  Only objects which
            are common to all types of LU sessions are included
            in this table.

            When a session's snaLuSessnOperState value changes to
            'pendingBind (2)', then the corresponding entry
            in the session table is created by the Agent.

            When the session's snaLuSessnOperState value changes to
             'unbound (1)',  then the session will be removed from
            the session table by the Agent."
        ::= { snaLu 3 }

snaLuSessnEntry OBJECT-TYPE
        SYNTAX  SnaLuSessnEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "An entry contains dynamic parameters for an LU-LU
            session.
            The indices identify the Node, local LU, and remote LU
            for this session."
        INDEX   { snaNodeAdminIndex,
                  snaLuAdminLuIndex,
                  snaLuSessnRluIndex,
                  snaLuSessnIndex }
        ::= { snaLuSessnTable 1 }

SnaLuSessnEntry ::= SEQUENCE {
        snaLuSessnRluIndex
            Integer32,
        snaLuSessnIndex
            Integer32,
        snaLuSessnLocalApplName
            DisplayString,
        snaLuSessnRemoteLuName
            DisplayString,
        snaLuSessnMaxSndRuSize
            INTEGER,
        snaLuSessnMaxRcvRuSize
            INTEGER,
        snaLuSessnSndPacingSize
            INTEGER,
        snaLuSessnRcvPacingSize
            INTEGER,
```

```
    snaLuSessnActiveTime
        TimeStamp,
    snaLuSessnAdminState
        INTEGER,
    snaLuSessnOperState
        INTEGER,
    snaLuSessnSenseData
        OCTET STRING,
    snaLuSessnTerminationRu
        INTEGER,
    snaLuSessnUnbindType
        OCTET STRING,
    snaLuSessnLinkIndex
         Integer32
    }

snaLuSessnRluIndex OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value may be used to identify information about
        the session partner LU in a table of information about
        remote LUs.  Such a table is not defined in this
        document.  If a table of remote LU information is not
        implemented, or if the table is implemented but it does
        not contain information about the partner LU for a
        particular session (as for dependent LU-LU sessions)
        then this object will have a value of zero."
    ::= { snaLuSessnEntry 1 }

snaLuSessnIndex OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value identifies the unique index of the session.
        It is recommended
 that an Agent should not reuse the
        index of a deactivated session for a significant
        period of time (e.g., one week)."
    ::= { snaLuSessnEntry 2 }

snaLuSessnLocalApplName OBJECT-TYPE
    SYNTAX  DisplayString (SIZE(0..48))
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
```

```
            "The name of the local application using this LU.
            If the local application is unknown, then this object
            contains a zero length string."
        ::= { snaLuSessnEntry 3 }

    snaLuSessnRemoteLuName OBJECT-TYPE
        SYNTAX  DisplayString (SIZE(0..17))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "For dependent LUs which are indicated by the
            snaLuOperDepType object containing the value
            'dependent (1)', this object contains the Primary
            LU (PLU) name.  For independent LUs,
            this object contains the fully-qualified
     remote LU
            name of this 6.2 session.
            A fully qualified name is an SNA NAU entity name
            preceded by the NetId and a period as the delimiter."
        ::= { snaLuSessnEntry 4 }

    snaLuSessnMaxSndRuSize OBJECT-TYPE
        SYNTAX  INTEGER (1..8192)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The maximum RU size used on this session for sending
            RUs."
        ::= { snaLuSessnEntry 5 }

    snaLuSessnMaxRcvRuSize OBJECT-TYPE
        SYNTAX  INTEGER (1..8192)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The maximum RU size used on this session for
            receiving RUs."
        ::= { snaLuSessnEntry 6 }

    snaLuSessnSndPacingSize OBJECT-TYPE
        SYNTAX  INTEGER (1..63)
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The size of the send pacing window on this session."
        ::= {
     snaLuSessnEntry 7 }
```

```
snaLuSessnRcvPacingSize OBJECT-TYPE
    SYNTAX  INTEGER (1..63)
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The size of the receive pacing window on this
        session."
    ::= { snaLuSessnEntry 8 }

snaLuSessnActiveTime OBJECT-TYPE
    SYNTAX  TimeStamp
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The timestamp (e.g., the Agent's sysUpTime value)
        when this session becomes active."
    ::= { snaLuSessnEntry 9 }

snaLuSessnAdminState OBJECT-TYPE
    SYNTAX  INTEGER {
        unbound (1),
        bound (3)
        }
    MAX-ACCESS  read-write
    STATUS  current
    DESCRIPTION
        "The value indicates the desired operational state of
        the session. This object is used to
        change the operational state of the session.
        A Management Station
 can only change the operational
        state of the session to 'unbound (1)'.

        Session deactivation:
          If a session is in the operational state
          'bound (3)' then setting the value of this
          object to 'unbound (1)' will initiate the
          session shutdown.

          If a session is in the operational state
          'pendingBind (2)' then setting the value of this
          object to 'unbound (1)' will initiate the session
          shutdown.
          If a session is in the operational state
          'pendingUnbind (4)' for an abnormally long period
          of time (e.g., three minutes) then setting the value
          of this object to 'unbound (1)' will change the
          session operational state to 'unbound (1)'.
```

```
            Note: for dependent LUs, deactivating the session is
            the same as deactivating
 the LU."
        ::= { snaLuSessnEntry 10 }

snaLuSessnOperState OBJECT-TYPE
        SYNTAX  INTEGER {
            unbound (1),
            pendingBind (2),
            bound (3),
            pendingUnbind (4)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value indicates the current operational state of
            the session.

             'unbound (1)' - session has been  unbound;
                 in this state it will be removed from the
                 session table by the Agent.

             'pendingBind (2)' - this state has different
                 meanings for dependent and independent LUs;
                 for dependent LU - waiting for BIND from
                 the host, for independent LU - waiting for
                 BIND response.  When a session enters this
                 state, the corresponding entry in the

              session table is created by the Agent.

             'bound (3)' - session has been successfully bound.

             'pendingUnbind (4)' - session enters this state
                 when an UNBIND is sent and before the
                 rsp(UNBIND) is received."
        ::= { snaLuSessnEntry 11 }

snaLuSessnSenseData OBJECT-TYPE
        SYNTAX  OCTET STRING (SIZE(0..8))
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value identifies the sense code when there is
            a BIND failure. It is taken from the negative BIND
            response or UNBIND request.
            This is displayed as 8 hexadecimal digits."
```

```
    ::= { snaLuSessnEntry 12 }

snaLuSessnTerminationRu OBJECT-TYPE
    SYNTAX INTEGER {
        other (1),
        bindFailure (2),
        unbind (3)
        }
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The value identifies the SNA RU that terminated the
        session.
        If the session is not in the unbound state, this object
        has a value of  'other (1)'."
    ::= { snaLuSessnEntry 13 }


snaLuSessnUnbindType OBJECT-TYPE
    SYNTAX  OCTET STRING (SIZE(0..1))
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "If the session is in the unbound state, and it was
        terminated by an UNBIND, then this object contains
        the UNBIND type value (byte 1 of the UNBIND RU);
        otherwise the string is null."
    ::= { snaLuSessnEntry 14 }

snaLuSessnLinkIndex OBJECT-TYPE
    SYNTAX  Integer32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "This value identifies the link over which the session
        passes.  It is an index into snaNodeLinkAdminTable.
        If the index value is not known,
 the value of this
        object shall be zero."
    ::= { snaLuSessnEntry 15 }


-- ****************************************************************
-- The following table contains LU sessions statistics dynamic
-- parameters.
-- ****************************************************************

snaLuSessnStatsTable OBJECT-TYPE
```

```
        SYNTAX  SEQUENCE OF SnaLuSessnStatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "This table contains dynamic statistics information
            relating to LU sessions.
            The entries in this table augment the entries in
            the snaLuSessnTable and cannot be created by
            a Management Station."
        ::= { snaLu 4 }

    snaLuSessnStatsEntry OBJECT-TYPE
        SYNTAX  SnaLuSessnStatsEntry
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "Contains statistics information for an LU session.

       Each entry is created by the Agent.
            Objects in this table have read-only access.
            Each session from snaLuSessnTable
            has one entry in this table."
        AUGMENTS   { snaLuSessnEntry }
        ::= { snaLuSessnStatsTable 1 }

    SnaLuSessnStatsEntry ::= SEQUENCE {
        snaLuSessnStatsSentBytes
            Counter32,
        snaLuSessnStatsReceivedBytes
            Counter32,
        snaLuSessnStatsSentRus
            Counter32,
        snaLuSessnStatsReceivedRus
            Counter32,
        snaLuSessnStatsSentNegativeResps
            Counter32,
        snaLuSessnStatsReceivedNegativeResps
            Counter32
        }

    snaLuSessnStatsSentBytes OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The number of bytes sent by the local LU."
        ::= { snaLuSessnStatsEntry 1 }
```

```
snaLuSessnStatsReceivedBytes OBJECT-TYPE
    SYNTAX
 Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of bytes received by the local LU."
    ::= { snaLuSessnStatsEntry 2 }

snaLuSessnStatsSentRus OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of RUs sent by the local LU."
    ::= { snaLuSessnStatsEntry 3 }

snaLuSessnStatsReceivedRus OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of RUs received by the local LU."
    ::= { snaLuSessnStatsEntry 4 }

snaLuSessnStatsSentNegativeResps OBJECT-TYPE
    SYNTAX  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of negative responses sent by the
        local LU."
    ::= { snaLuSessnStatsEntry 5 }

snaLuSessnStatsReceivedNegativeResps OBJECT-TYPE
    SYNTAX
  Counter32
    MAX-ACCESS  read-only
    STATUS  current
    DESCRIPTION
        "The number of negative responses received by the
        local LU."
    ::= { snaLuSessnStatsEntry 6 }


-- ****************************************************************
-- Traps
-- ****************************************************************
```

```
snaLuTraps OBJECT IDENTIFIER ::= { snaLu 5 }

snaLuStateChangeTrap NOTIFICATION-TYPE
      OBJECTS  {  snaLuOperName,
                  snaLuOperSnaName,
                  snaLuOperState }
      STATUS  current
      DESCRIPTION
            "This trap indicates that the operational state
            (i.e., snaLuOperState value) of the LU has changed.
            The value of snaLuOperName indicates the name of the
            LU.
            The value of snaLuOperSnaName indicates the SNA name
            of LU.
            The value of snaLuOperState indicates the current
            state after
 change."
      ::= { snaLuTraps 1 }

snaLuSessnBindFailTrap NOTIFICATION-TYPE
      OBJECTS  { snaLuSessnLocalApplName,
            snaLuSessnRemoteLuName,
            snaLuSessnOperState,
            snaLuSessnSenseData }
      STATUS  current
      DESCRIPTION
            "This trap indicates the failure of a BIND.
            The value of snaLuSessnLocalApplName indicates the local
            application name.
            The value of snaLuSessnPartnerName indicates the partner
            name.
            The value of snaLuSessnOperState indicates the current
            state after change.
            The value of snaLuSessnBindFailureReason
            indicates the failure reason.
            The Agent should not generate more than 1 trap of this
            type per minute to minimize the level of management
            traffic on the network."
      ::= { snaLuTraps 2 }

-- ****************************************************************
--
 snaMgtTools group
--
-- Currently this group contains only one table.
-- ****************************************************************
```

```
-- ****************************************************************
-- The following table contains Response Time Monitoring (RTM)
-- configuration information and statistics for LU Type 2s.
-- RTM supports the capability to measure and report end-user
-- response times for dependent LUs. When the RTM state of an LU
-- is 'on', response times for each LU transaction are monitored.
-- A set of ranges is defined (e.g., Range 1 includes the number of
-- transactions with response times less than 1 second) using the
-- "boundary" definitions (e.g., boundary #2 is defined as 3 seconds).
-- A set of counters (one per range) identifies
-- the number of transactions within each response time range.
-- ****************************************************************

snaLuRtmTable OBJECT-TYPE
      SYNTAX  SEQUENCE OF SnaLuRtmEntry
       MAX-ACCESS  not-accessible
      STATUS  current
      DESCRIPTION
            "This table contains Response Time Monitoring (RTM)
            information relating to an LU (Type 2). Each entry
            corresponds to an LU 2 entry in
            snaLuAdminTable."
      ::= { snaMgtTools 1 }

snaLuRtmEntry OBJECT-TYPE
      SYNTAX  SnaLuRtmEntry
      MAX-ACCESS  not-accessible
      STATUS  current
      DESCRIPTION
            "Contains RTM information for an LU (Type 2).
            Each entry is created by the Agent."
      INDEX   { snaLuRtmPuIndex, snaLuRtmLuIndex }
      ::= { snaLuRtmTable 1 }

SnaLuRtmEntry ::= SEQUENCE {
      snaLuRtmPuIndex
            Integer32,
      snaLuRtmLuIndex
            Integer32,
      snaLuRtmState
            INTEGER,
      snaLuRtmStateTime
            TimeStamp,
      snaLuRtmDef
            INTEGER,
      snaLuRtmBoundary1
            Integer32,
```

```
        snaLuRtmBoundary2
            Integer32,
        snaLuRtmBoundary3
            Integer32,
        snaLuRtmBoundary4
            Integer32,
        snaLuRtmCounter1
            Counter32,
        snaLuRtmCounter2
            Counter32,
        snaLuRtmCounter3
            Counter32,
        snaLuRtmCounter4
            Counter32,
        snaLuRtmOverFlows
            Counter32,
        snaLuRtmObjPercent
            Integer32,
        snaLuRtmObjRange
            INTEGER,
        snaLuRtmNumTrans
            Integer32,
        snaLuRtmLastRspTime
            Integer32,
        snaLuRtmAvgRspTime
            Integer32
        }

snaLuRtmPuIndex OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS not-accessible
        STATUS  current
        DESCRIPTION
            "The value identifies the PU 2.0 with which this LU is
            associated."
        ::= { snaLuRtmEntry 1 }

snaLuRtmLuIndex OBJECT-TYPE
        SYNTAX
    Integer32
        MAX-ACCESS  not-accessible
        STATUS  current
        DESCRIPTION
            "The value uniquely identifies an LU in a PU 2.0."
        ::= { snaLuRtmEntry 2 }

snaLuRtmState OBJECT-TYPE
        SYNTAX  INTEGER {
```

```
            off(1),
            on(2)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The value indicates the current RTM state of an LU."
        ::= { snaLuRtmEntry 3 }

    snaLuRtmStateTime  OBJECT-TYPE
        SYNTAX  TimeStamp
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "The timestamp (e.g., the Agent's sysUpTime value)
            when this session's RTM state (e.g., snaLuRtmState)
            changes value."
        ::= { snaLuRtmEntry 4 }

    snaLuRtmDef OBJECT-TYPE
        SYNTAX  INTEGER {
            firstChar(1),
            kb(2),
            cdeb(3)
            }
        MAX-ACCESS  read-only

       STATUS  current
        DESCRIPTION
            "The value indicates the mode of measurement for this
            RTM request.  The values have following meaning:
              firstChar(1) - time to first character on screen
              kb(2) - time to keyboard usable by operator
              cdeb(3) - time to Change Direction/End Bracket."
        ::= { snaLuRtmEntry 5 }

    snaLuRtmBoundary1 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This object contains the value of the first boundary
            in units of 1/10th of a second."
        ::= { snaLuRtmEntry 6 }

    snaLuRtmBoundary2 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
```

```
        STATUS  current
        DESCRIPTION
                "This object contains the value of the second boundary
                 in units of 1/10th of a second."
        ::= { snaLuRtmEntry 7 }

snaLuRtmBoundary3 OBJECT-TYPE
         SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This object contains the value of the third boundary
                 in units of 1/10th of a second."
        ::= { snaLuRtmEntry 8 }

snaLuRtmBoundary4 OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This object contains the value of the fourth boundary
                in units of 1/10th of a second."
        ::= { snaLuRtmEntry 9 }

snaLuRtmCounter1 OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This value indicates the number of transactions which
                fall in the range specified by the first boundary."
        ::= { snaLuRtmEntry 10 }

snaLuRtmCounter2 OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
                "This value indicates
 the number of transactions which
                fall in the range specified by the second boundary."
        ::= { snaLuRtmEntry 11 }

snaLuRtmCounter3 OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
```

```
            "This value indicates the number of transactions which
            fall in the range specified by the third boundary."
        ::= { snaLuRtmEntry 12 }

snaLuRtmCounter4 OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value indicates the number of transactions which
            fall in the range specified by the fourth boundary."
        ::= { snaLuRtmEntry 13 }

snaLuRtmOverFlows OBJECT-TYPE
        SYNTAX  Counter32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value indicates the number of transactions which
            exceed the highest range specified by
 the
            boundaries."
        ::= { snaLuRtmEntry 14 }

snaLuRtmObjPercent OBJECT-TYPE
        SYNTAX  Integer32
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value indicates the desired percentage of
            transactions which should be under a designated
            boundary range indicated by snaLuRtmObjRange."
        ::= { snaLuRtmEntry 15 }

snaLuRtmObjRange OBJECT-TYPE
         SYNTAX  INTEGER {
            other(1),
            range1(2),
            range2(3),
            range3(4),
            range4(5),
            range5(6)
            }
        MAX-ACCESS  read-only
        STATUS  current
        DESCRIPTION
            "This value indicates the designated boundary range to
            which the snaLuRtmObject refers.
```

```
            The values have the following meanings:
              other(1)   - not specified
              range1(2)  - less than boundary
1
              range2(3)  - between boundary 1 and 2
              range3(4)  - between boundary 2 and 3
              range4(5)  - between boundary 3 and 4
              range5(6)  - greater than boundary 4."
      ::= { snaLuRtmEntry 16 }

snaLuRtmNumTrans OBJECT-TYPE
      SYNTAX  Integer32
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION
            "This value indicates the total number of transactions
            executed since the RTM monitoring began (i.e.,
            snaLuRtmState changed to 'on(2)') for this LU."
      ::= { snaLuRtmEntry 17 }

snaLuRtmLastRspTime OBJECT-TYPE
      SYNTAX  Integer32
      MAX-ACCESS  read-only
      STATUS  current
      DESCRIPTION
            "This value indicates the response time for the last
            transaction in units of 1/10th of a second."
      ::= { snaLuRtmEntry 18 }

snaLuRtmAvgRspTime OBJECT-TYPE
      SYNTAX  Integer32
      MAX-ACCESS  read-only
       STATUS  current
      DESCRIPTION
            "This value indicates the average response time for all
            transactions in units of 1/10th of a second."
      ::= { snaLuRtmEntry 19 }


-- ****************************************************************
-- Conformance information
-- ****************************************************************

snanauConformance       OBJECT IDENTIFIER ::= { snanauMIB 2 }

snanauCompliances       OBJECT IDENTIFIER ::= {snanauConformance 1 }
snanauGroups            OBJECT IDENTIFIER ::= {snanauConformance 2 }
```

```
-- Compliance statements
snanauCompliance  MODULE-COMPLIANCE
      STATUS  current
      DESCRIPTION
            "The compliance statement for the SNMPv2 entities
            which implement the snanau MIB."
      MODULE  -- this module

--     Unconditionally mandatory groups
            MANDATORY-GROUPS  { snaNodeGroup,
                  snaLuGroup,
                  snaSessionGroup
 }

--     Conditionally mandatory groups
            GROUP  snaPu20Group
            DESCRIPTION
                  "The snaPu20Group is mandatory only for those
                  entities which implement PU type 2.0"
            GROUP  snaMgtToolsRtmGroup
            DESCRIPTION
                  "The snaMgtToolsGroup is mandatory only for
                  those entities which implement LU type 2
                  and RTM."

--     Refinement of requirements for objects access.
--     The Agent which does not implement row creation for
--     snaNodeAdminTable, snaNodeLinkAdminTable and
--     snaLuAdminTable must at least accept
--     objects modification (read-write access instead of
--     read-create).

            OBJECT  snaNodeAdminName
            MIN-ACCESS  read-write
            DESCRIPTION
                  "An Agent is required to implement read-write
                  access to this object."

             OBJECT  snaNodeAdminType
            MIN-ACCESS  read-write
            DESCRIPTION
                  "An Agent is required to implement read-write
                  access to this object."

            OBJECT  snaNodeAdminXidFormat
            MIN-ACCESS  read-write
            DESCRIPTION
                  "An Agent is required to implement read-write
```

access to this object."

OBJECT snaNodeAdminBlockNum
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminIdNum
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminEnablingMethod
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminLuTermDefault
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminMaxLu
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminHostDescription
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminStopMethod
MIN-ACCESS read-write
DESCRIPTION
"An
Agent is required to implement read-write
access to this object."

OBJECT snaNodeAdminState
MIN-ACCESS read-write
DESCRIPTION

"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeLinkAdminSpecific
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaNodeLinkAdminMaxPiu
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."
OBJECT snaLuAdminName
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this
object."

OBJECT snaLuAdminSnaName
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminType
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminDepType
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminLocalAddress
MIN-ACCESS read-write
DESCRIPTION
"An Agent is required to implement read-write
access to this object."

OBJECT snaLuAdminDisplayModel
MIN-ACCESS

```
 read-write
          DESCRIPTION
               "An Agent is required to implement read-write
               access to this object."

          OBJECT  snaLuAdminTerm
          MIN-ACCESS  read-write
          DESCRIPTION
               "An Agent is required to implement read-write
               access to this object."

     ::= {snanauCompliances 1 }


-- Units of conformance

snaNodeGroup  OBJECT-GROUP
     OBJECTS  { snaNodeAdminName,
          snaNodeAdminType,
          snaNodeAdminXidFormat,
          snaNodeAdminBlockNum,
          snaNodeAdminIdNum,
          snaNodeAdminEnablingMethod,
          snaNodeAdminLuTermDefault,
          snaNodeAdminMaxLu,
          snaNodeAdminHostDescription,
          snaNodeAdminStopMethod,
          snaNodeAdminState,
          snaNodeAdminRowStatus,
          snaNodeAdminTableLastChange,
          snaNodeOperName,
           snaNodeOperType,
          snaNodeOperXidFormat,
          snaNodeOperBlockNum,
          snaNodeOperIdNum,
          snaNodeOperEnablingMethod,
          snaNodeOperLuTermDefault,
          snaNodeOperMaxLu,
          snaNodeOperHostDescription,
          snaNodeOperStopMethod,
          snaNodeOperState,
          snaNodeOperHostSscpId,
          snaNodeOperStartTime,
          snaNodeOperLastStateChange,
          snaNodeOperActFailures,
          snaNodeOperActFailureReason,
          snaNodeOperTableLastChange,
          snaNodeLinkAdminSpecific,
```

```
            snaNodeLinkAdminMaxPiu,
            snaNodeLinkAdminRowStatus,
            snaNodeLinkAdminTableLastChange,
            snaNodeLinkOperSpecific,
            snaNodeLinkOperMaxPiu,
            snaNodeLinkOperTableLastChange }
        STATUS  current
        DESCRIPTION

        "A collection of objects providing the
            instrumentation of SNA nodes."
        ::= { snanauGroups 1 }

snaLuGroup  OBJECT-GROUP
        OBJECTS  { snaLuAdminName,
            snaLuAdminSnaName,
            snaLuAdminType,
            snaLuAdminDepType,
            snaLuAdminLocalAddress,
            snaLuAdminDisplayModel,
            snaLuAdminTerm,
            snaLuAdminRowStatus,
            snaLuOperName,
            snaLuOperSnaName,
            snaLuOperType,
            snaLuOperDepType,
            snaLuOperLocalAddress,
            snaLuOperDisplayModel,
            snaLuOperTerm,
            snaLuOperState,
            snaLuOperSessnCount }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of SNA LUs."
        ::= { snanauGroups 2 }

snaSessionGroup  OBJECT-GROUP
        OBJECTS  { snaLuSessnRluIndex,

       snaLuSessnIndex,
            snaLuSessnLocalApplName,
            snaLuSessnRemoteLuName,
            snaLuSessnMaxSndRuSize,
            snaLuSessnMaxRcvRuSize,
            snaLuSessnSndPacingSize,
            snaLuSessnRcvPacingSize,
            snaLuSessnActiveTime,
```

```
            snaLuSessnAdminState,
            snaLuSessnOperState,
            snaLuSessnSenseData,
            snaLuSessnTerminationRu,
            snaLuSessnUnbindType,
            snaLuSessnLinkIndex,
            snaLuSessnStatsSentBytes,
            snaLuSessnStatsReceivedBytes,
            snaLuSessnStatsSentRus,
            snaLuSessnStatsReceivedRus,
            snaLuSessnStatsSentNegativeResps,
            snaLuSessnStatsReceivedNegativeResps }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of SNA sessions."
        ::= { snanauGroups 3 }

snaPu20Group
  OBJECT-GROUP
        OBJECTS  { snaPu20StatsSentBytes,
            snaPu20StatsReceivedBytes,
            snaPu20StatsSentPius,
            snaPu20StatsReceivedPius,
            snaPu20StatsSentNegativeResps,
            snaPu20StatsReceivedNegativeResps,
            snaPu20StatsActLus,
            snaPu20StatsInActLus,
            snaPu20StatsBindLus }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of PU 2.0."
        ::= { snanauGroups 4 }

snaMgtToolsRtmGroup  OBJECT-GROUP
        OBJECTS  { snaLuRtmState,
            snaLuRtmStateTime,
            snaLuRtmDef,
            snaLuRtmBoundary1,
            snaLuRtmBoundary2,
            snaLuRtmBoundary3,
            snaLuRtmBoundary4,
            snaLuRtmCounter1,
            snaLuRtmCounter2,
            snaLuRtmCounter3,
            snaLuRtmCounter4,
            snaLuRtmOverFlows,
```

```
            snaLuRtmObjPercent,
            snaLuRtmObjRange,
            snaLuRtmNumTrans,
            snaLuRtmLastRspTime,
            snaLuRtmAvgRspTime }
        STATUS  current
        DESCRIPTION
            "A collection of objects providing the
            instrumentation of RTM for SNA LU 2.0."
        ::= { snanauGroups 5 }

-- end of conformance statement


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-MIB
No license file was found, but licenses were detected in source scan.

```
Modem-MIB DEFINITIONS ::= BEGIN


IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, OBJECT-IDENTITY,
  Counter32, Integer32 FROM SNMPv2-SMI
  DisplayString FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP FROM SNMPv2-CONF
  mib-2 FROM RFC1213-MIB;


mdmMIB MODULE-IDENTITY
  LAST-UPDATED "9406120000Z"
  ORGANIZATION "IETF Modem Management Working Group"
  CONTACT-INFO
        "       Steven Waldbusser
         Postal: Carnegie Mellon University
                 5000 Forbes Ave
                 Pittsburgh, PA, 15213
                 US

           Tel: +1 412 268 6628
           Fax: +1 412 268 4987
         E-mail: waldbusser@cmu.edu"
  DESCRIPTION
       "The MIB module for management of dial-up modems."
  ::= { mdmMib 1 }
```

```
mdmMib OBJECT IDENTIFIER ::= { mib-2 38 }

mdmMIBObjects OBJECT IDENTIFIER ::= { mdmMIB 1 }


-- conformance information

mdmConformance OBJECT IDENTIFIER
 ::= { mdmMIB 2 }

mdmCompliances OBJECT IDENTIFIER ::= { mdmConformance 1 }
mdmGroups      OBJECT IDENTIFIER ::= { mdmConformance 2 }

-- units of conformance

mdmIDGroup    OBJECT-GROUP
  OBJECTS   { mdmIDManufacturerOID, mdmIDProductDetails }
  STATUS    current
  DESCRIPTION
        "A collection of objects that identify the manufacturer and
        model information for a modem."
  ::= { mdmGroups 1 }

mdmLineInterfaceGroup    OBJECT-GROUP
  OBJECTS { mdmLineCarrierLossTime,
     mdmLineState, mdmLineCapabilitiesID,
     mdmLineCapabilitiesEnableRequested,
     mdmLineCapabilitiesEnableGranted }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of the modem's line interface."
  ::= { mdmGroups 2 }

mdmDTEInterfaceGroup    OBJECT-GROUP
  OBJECTS { mdmDTEActionDTROnToOff, mdmDTEActionDTROffToOn,
            mdmDTESyncTimingSource, mdmDTESyncAsyncMode,

   mdmDTEInactivityTimeout }
  STATUS      current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of the modem's DTE interface."
  ::= { mdmGroups 3 }

mdmCallControlGroup    OBJECT-GROUP
  OBJECTS { mdmCCRingsBeforeAnswer,
     mdmCCCallSetUpFailTimer, mdmCCResultCodeEnable,
```

```
      mdmCCEscapeAction, mdmCCCallDuration,
      mdmCCConnectionFailReason, mdmCCStoredDialString }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration of
        call control capabilities on the modem and the status of
        calls placed with this modem."
  ::= { mdmGroups 4 }

mdmErrorControlGroup   OBJECT-GROUP
  OBJECTS { mdmECErrorControlUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of error control on a modem."
  ::= { mdmGroups 5 }

mdmDataCompressionGroup   OBJECT-GROUP
  OBJECTS
 { mdmDCCompressionTypeUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of data compression on a modem."
  ::= { mdmGroups 6 }

mdmSignalConvertorGroup   OBJECT-GROUP
OBJECTS { mdmSCCurrentLineReceiveRate, mdmSCCurrentLineTransmitRate,
       mdmSCInitialLineReceiveRate, mdmSCInitialLineTransmitRate,
       mdmSCModulationSchemeUsed }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the configuration and
        state of error control on a modem."
  ::= { mdmGroups 7 }

mdmStatisticsGroup  OBJECT-GROUP
  OBJECTS { mdmStatsRingNoAnswers,
      mdmStatsIncomingConnectionFailures,
      mdmStatsIncomingConnectionCompletions,
      mdmStatsFailedDialAttempts,
      mdmStatsOutgoingConnectionFailures,
      mdmStatsOutgoingConnectionCompletions,
      mdmStatsRetrains,
      mdmStats2400OrLessConnections, mdmStats2400To14400Connections,
       mdmStatsGreaterThan14400Connections,
      mdmStatsErrorControlledConnections,
      mdmStatsCompressedConnections,
```

```
      mdmStatsCompressionEfficiency,
      mdmStatsSentOctets, mdmStatsReceivedOctets,
      mdmStatsSentDataFrames, mdmStatsReceivedDataFrames,
      mdmStatsResentFrames, mdmStatsErrorFrames }
  STATUS  current
  DESCRIPTION
        "A collection of objects that describe the state of calls on
        this modem."
  ::= { mdmGroups 8 }

mdmNumber OBJECT-TYPE
  SYNTAX  Integer32
  MAX-ACCESS  read-only
  STATUS  current
  DESCRIPTION
        "The number of modem rows in the modem table.  This value
        defines the maximum value of the mdmIndex object."
  ::= { mdmMIBObjects 1 }

-- The modem ID table.

mdmIDTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmIDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The base table for the modems managed by this MIB.  The
        mdmLineTable,
 mdmDTEInterfaceTable, mdmCallControlTable, and
        mdmStatsTable all augment the rows defined in this table."
  ::= { mdmMIBObjects 2 }

mdmIDEntry OBJECT-TYPE
  SYNTAX      MdmIDEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  INDEX       { mdmIndex }
  ::= { mdmIDTable 1 }

MdmIDEntry ::= SEQUENCE {
  mdmIndex              Integer32,
  mdmIDManufacturerOID    OBJECT IDENTIFIER,
  mdmIDProductDetails     DisplayString
}
```

```
mdmIndex OBJECT-TYPE
  SYNTAX      Integer32 (1..65535)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A unique number for each modem that ranges from 1 to
        mdmNumber.  The value must remain constant at least from one
        re-initialization of the network management agent to the
        next."
  ::= { mdmIDEntry 1
 }

mdmIDManufacturerOID OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "This value is intended to identify the manufacturer, model,
        and version of this modem.  This may be used to identify the
        existance of enterprise-specific functions and behaviours."
  REFERENCE
        "V.58 attribute manufacturerID subfield ManufacturerOI"
  ::= { mdmIDEntry 2 }

mdmIDProductDetails OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..79))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "A textual description of this device, including the
        manufacturer's name, modem model name, hardware revision,
        firmware revision, and optionally, its serial number.  The
        exact format of this description is defined by the vendor.
        This description may only contain characters from the NVT
        ASCII character set."
  REFERENCE
         "V.58 attribute manufacturerID subfield productDetails"
  ::= { mdmIDEntry 3 }

-- The modem Line Interface Table

mdmLineTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmLineEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem Line Table augments the modem ID table."
  ::= { mdmMIBObjects 3 }
```

```
mdmLineEntry OBJECT-TYPE
  SYNTAX      MdmLineEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmLineTable 1 }

MdmLineEntry ::= SEQUENCE {
  mdmLineCarrierLossTime         Integer32,
  mdmLineState                   INTEGER
}

mdmLineCarrierLossTime OBJECT-TYPE
  SYNTAX      Integer32 (1..255)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Duration in 10ths of a second the modem waits after
 loss of
        carrier before hanging up.  If this value is set to `255',
        the modem will not hang up upon loss of carrier.  This
        allows the modem to distinguish between a momentary lapse in
        line quality and a true disconnect and can be useful to tune
        the tolerance of the modem to lines of poor quality."
  REFERENCE "V.58 lineSignalFailDisconnectTimer"
  ::= { mdmLineEntry 1 }

mdmLineState OBJECT-TYPE
  SYNTAX      INTEGER {
                unknown(1),
                onHook(2),
                offHook(3),  -- and not connected
                connected(4),
                busiedOut(5),
                reset(6)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Allows the inspection and alteration of the state of the
        modem.  Management commands may change the state to `on-
        hook', `busied-out', or `reset' from any state.  No other
```

```
        alterations are permitted from the management protocol.
        When this object is set to reset, the modem shall be reset
        and the value will change to the modem's new, implementation
        dependent state."
  ::= { mdmLineEntry 2 }

mdmLineCapabilitiesTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmLineCapabilitiesEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A list of protocol capabilities for this modem."
  ::= { mdmMIBObjects 4 }

mdmLineCapabilitiesEntry OBJECT-TYPE
  SYNTAX      MdmLineCapabilitiesEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A listing of the protocol(s) that this modem is capable of.
        Entries in this table are created only by the agent.  One
        entry exists for each protocol that the modem is capable of,
        regardless of whether that protocol is enabled or not.

        This table is useful for providing an
 inventory of the
        capabilities on a modem, and allowing the manager to enable
        or disable capabilities from the menu of available
        possibilities.  Row creation is not required to enable or
        disable capabilities."
  INDEX       { mdmIndex, mdmLineCapabilitiesIndex }
  ::= { mdmLineCapabilitiesTable 1 }

MdmLineCapabilitiesEntry ::= SEQUENCE {
  mdmLineCapabilitiesIndex           Integer32,
  mdmLineCapabilitiesID              OBJECT IDENTIFIER,
  mdmLineCapabilitiesEnableRequested  INTEGER,
  mdmLineCapabilitiesEnableGranted    INTEGER
}

mdmLineCapabilitiesIndex OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A unique index for this capabilities entry."
  ::= { mdmLineCapabilitiesEntry 1 }
```

```
mdmLineCapabilitiesID OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "An identifier for
 this capability.  Standard protocol
        capabilities will have identifiers registered in this
        document or other companion standards documents.
        Proprietary protocol capabilities will be registered by
        their respective organization.  All capabilities, standard
        or vendor-specific, shall be registered in this table."
  ::= { mdmLineCapabilitiesEntry 2 }

mdmLineCapabilitiesEnableRequested OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                optional(2),
                preferred(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The requested configuration of this capability.  If this
        value is 'disabled(1)', this is a request to disable this
        protocol.  If this value is 'preferred(3)', this is a
        request to enable this protocol, and to prefer it in any
        negotiation over other appropriate protocols
 that have a
        value of 'optional(2)'."
  DEFVAL      { preferred }
  ::= { mdmLineCapabilitiesEntry 3 }

mdmLineCapabilitiesEnableGranted OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                optional(2),
                preferred(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The actual configuration of this capability.  The agent
        shall attempt to set this as close as possible to the
        associated mdmLineCapabilitiesEnableRequested value.  The
        agent shall make this determination in an implementation-
        specific manner that may take into account the configuration
        of other capabilities or other considerations.  The modem
```

```
            will choose in an implementation-specific manner between
            multiple mutually-exclusive capabilities that each have the
            same (non-disabled) value.  However, the modem must prefer
             all capabilities with a value of 'preferred(3)' over all
            capabilities with a value of 'optional(2)'.

            In other words, if there are one or more mutually-exclusive
            capabilities (e.g. V.32 and V.32bis) that are set to
            `preferred', the agent must choose one in an
            implementation-specific manner.  Otherwise, if there are one
            or more mutually-exclusive capabilities that are set to
            `optional', the agent must choose one in an implementation-
            specific manner."
    ::= { mdmLineCapabilitiesEntry 4 }

mdmLineCapabilities   OBJECT IDENTIFIER ::= { mdmMIBObjects 5 }

mdmLineCapabilitiesV21 OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
            "ITU V.21"
    ::= { mdmLineCapabilities 1 }

mdmLineCapabilitiesV22 OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
            "ITU V.22"
    ::= { mdmLineCapabilities 2 }

mdmLineCapabilitiesV22bis OBJECT-IDENTITY
    STATUS  current
     DESCRIPTION
            "ITU V.22bis"
    ::= { mdmLineCapabilities 3 }

mdmLineCapabilitiesV23CC OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
            "ITU V.23CC"
    ::= { mdmLineCapabilities 4 }

mdmLineCapabilitiesV23SC OBJECT-IDENTITY
    STATUS  current
    DESCRIPTION
            "ITU V.23SC"
    ::= { mdmLineCapabilities 5 }

mdmLineCapabilitiesV25bis OBJECT-IDENTITY
```

```
  STATUS  current
  DESCRIPTION
        "ITU V.25bis"
  ::= { mdmLineCapabilities 6 }

mdmLineCapabilitiesV26bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.26bis"
  ::= { mdmLineCapabilities 7 }

mdmLineCapabilitiesV26ter OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.26ter"
  ::= { mdmLineCapabilities 8 }

mdmLineCapabilitiesV27ter OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.27ter"
  ::= { mdmLineCapabilities 9 }

mdmLineCapabilitiesV32 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.32"
   ::= { mdmLineCapabilities 10 }

mdmLineCapabilitiesV32bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.32bis"
  ::= { mdmLineCapabilities 11 }

mdmLineCapabilitiesV32terbo OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.32terbo"
  ::= { mdmLineCapabilities 12 }

mdmLineCapabilitiesVFC OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.FC"
  ::= { mdmLineCapabilities 13 }

mdmLineCapabilitiesV34 OBJECT-IDENTITY
```

```
  STATUS  current
  DESCRIPTION
        "ITU V.34"
  ::= { mdmLineCapabilities 14 }

mdmLineCapabilitiesV42 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.42"
  ::= { mdmLineCapabilities 15 }

mdmLineCapabilitiesV42bis OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.42bis"
  ::= { mdmLineCapabilities 16 }

mdmLineCapabilitiesMNP1 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP1"
  ::= { mdmLineCapabilities 17 }

mdmLineCapabilitiesMNP2
 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP2"
  ::= { mdmLineCapabilities 18 }

mdmLineCapabilitiesMNP3 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP3"
  ::= { mdmLineCapabilities 19 }

mdmLineCapabilitiesMNP4 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP4"
  ::= { mdmLineCapabilities 20 }

mdmLineCapabilitiesMNP5 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP5"
  ::= { mdmLineCapabilities 21 }
```

```
mdmLineCapabilitiesMNP6 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP6"
  ::= { mdmLineCapabilities 22 }

mdmLineCapabilitiesMNP7 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP7"
  ::= { mdmLineCapabilities 23 }

mdmLineCapabilitiesMNP8 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP8"
  ::= { mdmLineCapabilities 24 }

mdmLineCapabilitiesMNP9 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION

  "MNP9"
  ::= { mdmLineCapabilities 25 }

mdmLineCapabilitiesMNP10 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "MNP10"
  ::= { mdmLineCapabilities 26 }

mdmLineCapabilitiesV29 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.29"
  ::= { mdmLineCapabilities 27 }

mdmLineCapabilitiesV33 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "ITU V.33"
  ::= { mdmLineCapabilities 28 }

mdmLineCapabilitiesBell208 OBJECT-IDENTITY
  STATUS  current
  DESCRIPTION
        "Bell 208"
  ::= { mdmLineCapabilities 29 }
```

```
-- DTE Interface Table

mdmDTEInterfaceTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmDTEInterfaceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem DTE Interface Table augments the modem ID table."
  ::= { mdmMIBObjects 6 }

mdmDTEInterfaceEntry OBJECT-TYPE
  SYNTAX      MdmDTEInterfaceEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
         "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmDTEInterfaceTable 1 }

MdmDTEInterfaceEntry ::= SEQUENCE {
  mdmDTEActionDTROnToOff      INTEGER,
  mdmDTEActionDTROffToOn      INTEGER,
  mdmDTESyncTimingSource      INTEGER,
  mdmDTESyncAsyncMode         INTEGER,
  mdmDTEInactivityTimeout     Integer32
}

mdmDTEActionDTROnToOff OBJECT-TYPE
  SYNTAX      INTEGER {
                ignore(1),
                escapeToCommandMode(2),
                disconnectCall(3),
                resetModem(4)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "Defines the action the modem will take when DTR drops.

        If the value is set to ignore(1), the modem takes no action
        when DTR drops.  Typically, mdmDTEActionDTROffToOn would
        also be set to ignore(1) if this object
 is set to ignore(1).

        If the value is escapeToCommandMode(2), the modem remains
```

```
        connected and enters command mode.  If the value is
        disconnectCall(3), the current call (if any) is terminated
        and the modem will not auto-answer while DTR is off.  If the
        value is resetModem(4), the current call (if any) is
        terminated and the modem is reset."
    DEFVAL      { disconnectCall }
    ::= { mdmDTEInterfaceEntry 1 }

mdmDTEActionDTROffToOn OBJECT-TYPE
    SYNTAX      INTEGER {
                    ignore(1),
                    enableDial(2),
                    autoAnswerEnable(3),
                    establishConnection(4)
                }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "Defines the action the modem will take when DTR is raised.

        If the value is set to ignore(1), the modem takes no action
        when DTR is raised.  Typically, mdmDTEActionDTROnToOff would
         also be set to ignore(1) if this object is set to ignore(1).

        If the value is set to enableDial(2), the modem prepares to
        dial an outgoing call.  If the value is set to
        autoAnswerEnable(3), the modem will be configured to answer
        any incoming call.  If the value is set to
        establishConnection(4), the modem dials an implementation
        specific number.

        Immediately after any reset or power-on of the modem, if the
        DTR is high, the action specified here will be executed."
    DEFVAL      { autoAnswerEnable }
    ::= { mdmDTEInterfaceEntry 2 }

mdmDTESyncTimingSource OBJECT-TYPE
    SYNTAX      INTEGER {
                    internal(1),
                    external(2),
                    loopback(3),
                    network(4)
                }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The clock source for synchronous transmissions.  If set to
```

```
        internal(1), the modem is the clock source and sends the
        clock signals to the DTE.  If set to external(2), the
        transmit clock signals are provided by the DTE.  If
        loopback(3), the modem receiver clock is used for the
        transmit clock.  If network(4), the clock signals are
        supplied by the DCE interface.

        If the modem is not in synchronous mode, setting this object
        will have no effect on the current operations of the modem."
  REFERENCE   "V.58 transmitClockSource"
  DEFVAL      { internal }
  ::= { mdmDTEInterfaceEntry 3 }

mdmDTESyncAsyncMode OBJECT-TYPE
  SYNTAX      INTEGER {
                async(1),
                sync(2),
                syncAfterDial(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The operational mode of the modem.  If the value is
        syncAfterDial(3), the modem will accept commands in

       asynchronous mode and change to synchronous mode to pass
        data after a dial sequence has been executed."
  DEFVAL      { async }
  ::= { mdmDTEInterfaceEntry 4 }

mdmDTEInactivityTimeout OBJECT-TYPE
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The amount of idle time in minutes that the modem will wait
        before disconnecting a connection.  When a call is connected
        and no data is transferred (continuous marking condition) on
        both circuits 103 and 104 for the specified time, the DCE
        disconnects the call. If the value is 0, no idle disconnect
        will occur.  This function applies to asynchronous dial
        operations only and is intended for administrative control
        over idle connections."
  REFERENCE   "V.58 inactivityTimerSelect"
  DEFVAL { 0 }
  ::= { mdmDTEInterfaceEntry 5 }
```

```
-- The Call Control Table

mdmCallControlTable
 OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmCallControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem Call Control Table augments the modem ID table."
  ::= { mdmMIBObjects 7 }

mdmCallControlEntry OBJECT-TYPE
  SYNTAX      MdmCallControlEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmCallControlTable 1 }

MdmCallControlEntry ::= SEQUENCE {
  mdmCCRingsBeforeAnswer      Integer32,
  mdmCCCallSetUpFailTimer     Integer32,
  mdmCCResultCodeEnable       INTEGER,
  mdmCCEscapeAction           INTEGER,
  mdmCCCallDuration           Integer32,
  mdmCCConnectionFailReason   INTEGER
}

mdmCCRingsBeforeAnswer OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION

       "Determines which ring the modem will wait to answer the
        phone on.  If this value is `0', the modem will not go
        offhook and answer a call when a ring signal is detected."
  REFERENCE   "V.58 ringsBeforeAnswer"
  DEFVAL      { 1 }
  ::= { mdmCallControlEntry 1 }

mdmCCCallSetUpFailTimer OBJECT-TYPE
  SYNTAX      Integer32 (0..255)
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
```

```
        "This parameter specifies the amount of time, in seconds,
        that the modem shall allow between either answering a call
        (automatically or manually) or completion of dialing, and
        establishment of a connection with the remote modem. If no
        connection is established during this time, the modem
        disconnects from the line and returns a result code
        indicating the cause of the disconnection. In TIA-602, this
        is controlled by the value in the S7 register."
  REFERENCE   "V.58
 callSetUpFailTimer"
  DEFVAL      { 30 }
  ::= { mdmCallControlEntry 2 }

mdmCCResultCodeEnable OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                numericEnabled(2),
                verboseEnabled(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "When disabled, the DCE shall issue no 'result codes' of any
        kind to the DTE either in response to unsolicited events
        (eg. ring signal), or commands. In TIA-602, this is
        controlled by the ATQ command.  When numericEnabled, the DCE
        shall issue result codes in numeric form.  When
        verboseEnabled, the DCE shall issue result codes in a
        verbose, textual form."
  REFERENCE   "V.58 responseModeSelect"
  DEFVAL      { verboseEnabled }
  ::= { mdmCallControlEntry 3 }

mdmCCEscapeAction OBJECT-TYPE
  SYNTAX      INTEGER {
                ignoreEscape(1),

    hangUp(2),
                enterCommandMode(3)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "The modem's action upon successfully recognizing the
        'escape to command mode' character sequence."
  DEFVAL { ignoreEscape }
  ::= { mdmCallControlEntry 4 }
```

```
-- Call status portion of the call control table

mdmCCCallDuration OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Present or last completed connection time in seconds. If
        there have been no previous connections, this value should
        be -1."
  ::= { mdmCallControlEntry 5 }


mdmCCConnectionFailReason OBJECT-TYPE
  SYNTAX      INTEGER {
            -- General
                  unknown(1),
                  other(2),
                  managementCommand(3),
                  inactivityTimeout(4),
                  mnpIncompatibility(5),

                 protocolError(6),
            -- DCE
                  powerLoss(10),
                  equipmentFailure(11),
            -- DTE Interface
                  dtrDrop(20),
            -- Line Interface
                  noDialTone(30),
                  lineBusy(31),
                  noAnswer(32),
                  voiceDetected(33),
            -- Signal Converter
                  carrierLost(40),
                  trainingFailed(41),
                  faxDetected(42)
     }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION

        "Indicates the reason that the last connection or attempt
        failed. The meaning of each reason code is explained below.

          unknown:
        This code means the failure reason is unknown or
        there has been no previous call.
```

other:
This code used when no other code is applicable.
Additional vendor information may be available
elsewhere.

managementCommand:
A management command terminated the call. These
commands include escaping to command mode, initiating
dialing, restoring lines, and disconnecting.

inactivityTimeout:
The call was terminated because it was inactive for
at the minimum duration specified.

mnpIncompatibility:
The modems are unable to resolve MNP protocol
differences.

protocolError:
An error occured in one of protocol in use. Further
information is required to determine in which
protocol the error occurred, and the exact nature of
the error.

powerLoss:
The modem lost power and disconnected the call.

equipmentFailure:
The modem equipment failed.

dtrDrop:

DTR has been turned off while the modem is to
disconnect on DTR drop. (Ref: V.58 cct108TurnedOff)

noDialTone:
If the modem is to monitor for call progress tones,
but the modem has failed to detect dial tone while
attempting to dial a number.

lineBusy:
Busy signal is detected while busy signal detection
is enabled, or while the 'W' or '@' dial modifier is
used. (Ref: V.58 engagedTone)

noAnswer:
The call was not answered.

```
            voiceDetected:
          A voice was detected on the call.

            carrierLost:
          Indicates that the modem has disconnected due to
          detection of loss of carrier.  In TIA-602, the S10
          register determines the time that loss of carrier
          must be detected before the modem disconnects.

            trainingFailed:
          Indicates that the modems did
 not successfully train
          and reach data mode on the previous connection.

            faxDetected:
          A fax was detected on the call."
  REFERENCE   "V.58 callCleared"
  ::= { mdmCallControlEntry 6 }

-- The Stored Dial String table

mdmCCStoredDialStringTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmCCStoredDialStringEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The table of stored dial strings."
  REFERENCE   "V.58 telephoneNumbers"
  ::= { mdmMIBObjects 8 }

mdmCCStoredDialStringEntry OBJECT-TYPE
  SYNTAX      MdmCCStoredDialStringEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "A stored dial string."
  INDEX  { mdmIndex, mdmCCStoredDialStringIndex }
  ::= { mdmCCStoredDialStringTable 1 }

MdmCCStoredDialStringEntry ::= SEQUENCE {
  mdmCCStoredDialStringIndex     Integer32,
  mdmCCStoredDialString          DisplayString
}

mdmCCStoredDialStringIndex OBJECT-TYPE
   SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  not-accessible
```

```
  STATUS      current
  DESCRIPTION
        "The unique index of a particular dial string."
  ::= { mdmCCStoredDialStringEntry 1 }

mdmCCStoredDialString OBJECT-TYPE
  SYNTAX      DisplayString (SIZE(0..64))
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
        "A dial string stored in the modem."
  ::= { mdmCCStoredDialStringEntry 2 }

-- The modem Error Correcting Group

mdmECTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmECEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem error correcting table augments the modem ID
        table."
  ::= { mdmMIBObjects 9 }

mdmECEntry OBJECT-TYPE
  SYNTAX      MdmECEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS
   { mdmIDEntry }
  ::= { mdmECTable 1 }

MdmECEntry ::= SEQUENCE {
  mdmECErrorControlUsed          OBJECT IDENTIFIER
}

mdmECErrorControlUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Indicates the error control method used during the current
        or previous call.  This shall be one of the values for error
        control protocols registered in the capabilities table for
        this modem.  If no error control protocol is in use, this
```

```
        object shall have the value '{0 0}'."
  REFERENCE   "V.58 errorControlActive"
  ::= { mdmECEntry 1 }

-- The modem Data Compression Group

mdmDCTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmDCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem data compression table augments the modem ID
        table."
  ::= { mdmMIBObjects 10 }

mdmDCEntry OBJECT-TYPE
  SYNTAX      MdmDCEntry
   MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmDCTable 1 }

MdmDCEntry ::= SEQUENCE {
  mdmDCCompressionTypeUsed        OBJECT IDENTIFIER
}

mdmDCCompressionTypeUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "Indicates the data compression method used during the
        current or previous call.  This shall be one of the values
        for compression protocols registered in the capabilities
        table for this modem.  If no compression protocol is in use,
        this object shall have the value '{0 0}'."
  ::= { mdmDCEntry 1 }

-- The modem Signal Convertor Group

mdmSCTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmSCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
```

```
   DESCRIPTION
        "The modem signal convertor table augments the modem ID
        table."
  ::= { mdmMIBObjects 11 }

mdmSCEntry OBJECT-TYPE
  SYNTAX      MdmSCEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are created only by the agent. One
        entry exists for each modem managed by the agent."
  AUGMENTS    { mdmIDEntry }
  ::= { mdmSCTable 1 }

MdmSCEntry ::= SEQUENCE {
  mdmSCCurrentLineTransmitRate        Integer32,
  mdmSCCurrentLineReceiveRate         Integer32,
  mdmSCInitialLineTransmitRate        Integer32,
  mdmSCInitialLineReceiveRate         Integer32,
  mdmSCModulationSchemeUsed           OBJECT IDENTIFIER
}

mdmSCCurrentLineTransmitRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The current link transmit rate of a connection, or the last
        link transmit rate of the last connection
 in bits per
        second."
  REFERENCE   "V.58 transmissionSignallingRateActive"
  ::= { mdmSCEntry 1 }

mdmSCCurrentLineReceiveRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The current link receive rate of a connection, or the last
        link receive rate of the last connection in bits per
        second."
  REFERENCE   "V.58 transmissionSignallingRateActive"
  ::= { mdmSCEntry 2 }

mdmSCInitialLineTransmitRate OBJECT-TYPE
  SYNTAX      Integer32
```

```
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The initial link transmit rate of the current connection,
        or the initial link transmit rate of the last connection in
        bits per second."
  ::= { mdmSCEntry 3 }

mdmSCInitialLineReceiveRate OBJECT-TYPE
  SYNTAX      Integer32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The initial link receive rate of the
 current connection, or
        the initial link receive rate of the last connection in bits
        per second."
  ::= { mdmSCEntry 4 }

mdmSCModulationSchemeUsed OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The modulation scheme of the current or previous call.
        This shall be one of the values for modulation protocols
        registered in the capabilities table for this modem."
  REFERENCE   "V.58 gstnModulationSchemeActive"
  ::= { mdmSCEntry 5 }

-- The Modem Statistics Table

mdmStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF MdmStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "The modem statistics Table augments the modem ID table."
  ::= { mdmMIBObjects 12 }

mdmStatsEntry OBJECT-TYPE
  SYNTAX      MdmStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
        "Entries in this table are
 created only by the agent. One
        entry exists for each modem managed by the agent."
```

```
  AUGMENTS    { mdmIDEntry }
  ::= { mdmStatsTable 1 }

MdmStatsEntry ::= SEQUENCE {
  mdmStatsRingNoAnswers                 Counter32,
  mdmStatsIncomingConnectionFailures    Counter32,
  mdmStatsIncomingConnectionCompletions Counter32,
  mdmStatsFailedDialAttempts            Counter32,
  mdmStatsOutgoingConnectionFailures    Counter32,
  mdmStatsOutgoingConnectionCompletions Counter32,
  mdmStatsRetrains                      Counter32,
  mdmStats2400OrLessConnections         Counter32,
  mdmStats2400To14400Connections        Counter32,
  mdmStatsGreaterThan14400Connections   Counter32,
  mdmStatsErrorControlledConnections    Counter32,
  mdmStatsCompressedConnections         Counter32,
  mdmStatsCompressionEfficiency         Integer32,
  mdmStatsSentOctets                    Counter32,
  mdmStatsReceivedOctets
 Counter32,
  mdmStatsSentDataFrames                Counter32,
  mdmStatsReceivedDataFrames            Counter32,
  mdmStatsResentFrames                  Counter32,
  mdmStatsErrorFrames                   Counter32
}

mdmStatsRingNoAnswers OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of events in which ringing was detected but the
        call was not answered."
  ::= { mdmStatsEntry 1 }

mdmStatsIncomingConnectionFailures OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of incoming connection requests that this modem
        answered in which it could not train with the other DCE."
  ::= { mdmStatsEntry 2 }

mdmStatsIncomingConnectionCompletions OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
        "The number of incoming connection requests
 that this modem
        answered and successfully trained with the other DCE."
  ::= { mdmStatsEntry 3 }

mdmStatsFailedDialAttempts OBJECT-TYPE
      SYNTAX         Counter32
      MAX-ACCESS  read-only
      STATUS         current
      DESCRIPTION
            "The number of call attempts that failed because the modem
      didn't go off hook, or there was no dialtone."
      ::= { mdmStatsEntry 4 }

mdmStatsOutgoingConnectionFailures OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of outgoing calls from this modem which
        sucessfully went off hook and dialed, in which it could not
        train with the other DCE."
  ::= { mdmStatsEntry 5 }

mdmStatsOutgoingConnectionCompletions OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of outgoing calls from this modem which resulted

    in successfully training with the other DCE."
  ::= { mdmStatsEntry 6 }

mdmStatsRetrains OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of retrains experienced on connections on this
        line."
  ::= { mdmStatsEntry 7 }


-- Utilization counters

mdmStats2400OrLessConnections OBJECT-TYPE
```

```
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
        modulation speed of 2400 bits per second or less."
  ::= { mdmStatsEntry 8 }


mdmStats2400To14400Connections OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
        modulation speed of greater than 2400 bits per second and
        less than 14400 bits per second."
  ::= { mdmStatsEntry 9 }

mdmStatsGreaterThan14400Connections
 OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of connections initially established at a
        modulation speed of greater than 14400 bits per second."
  ::= { mdmStatsEntry 10 }

mdmStatsErrorControlledConnections OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of established connections using an error
        control protocol."
  ::= { mdmStatsEntry 11 }

mdmStatsCompressedConnections OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of established connections using a compression
        protocol."
  ::= { mdmStatsEntry 12 }

mdmStatsCompressionEfficiency OBJECT-TYPE
```

```
  SYNTAX      Integer32 (0..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of bytes transferred
 into the compression
        encoder divided by the number of bytes transferred out of
        the encoder, multiplied by 100 for either the current or
        last call.  If a data compression protocol is not in use,
        this value shall be `100'."
  REFERENCE   "V.58 compressionEfficiency"
  ::= { mdmStatsEntry 13 }

mdmStatsSentOctets OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of octets presented to the modem by the DTE."
  ::= { mdmStatsEntry 14 }

mdmStatsReceivedOctets OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of octets presented to the DTE by the modem."
  ::= { mdmStatsEntry 15 }

mdmStatsSentDataFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of data frames sent on the line interface.  If

       there is no frame-oriented protocol in use on the line
        interface, this counter shall not increment."
  ::= { mdmStatsEntry 16 }

mdmStatsReceivedDataFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of data frames received on the line interface.
        If there is no frame-oriented protocol in use on the line
        interface, this counter shall not increment."
```

```
  ::= { mdmStatsEntry 17 }

mdmStatsResentFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The number of times this modem retransmits frames on the
        line interface.  If there is no frame-oriented protocol in
        use on the line interface, this counter shall not
        increment."
  ::= { mdmStatsEntry 18 }

mdmStatsErrorFrames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      current
   DESCRIPTION
        "The number of block errors received on the link.  If there
        is no frame-oriented protocol in use on the line interface,
        this counter shall not increment."
  ::= { mdmStatsEntry 19 }


-- compliance statements

mdmCompliance MODULE-COMPLIANCE
  STATUS  current
  DESCRIPTION
        "The compliance statement for SNMPv2 entities which
        implement the modem MIB."

  MODULE  -- this module
    MANDATORY-GROUPS { mdmIDGroup, mdmLineInterfaceGroup,
          mdmDTEInterfaceGroup, mdmCallControlGroup,
          mdmSignalConvertorGroup, mdmStatisticsGroup }

    GROUP   mdmErrorControlGroup
    DESCRIPTION
      "This group is mandatory only for those modems that
      implement an error correction protocol."

    GROUP mdmDataCompressionGroup
    DESCRIPTION
      "This group is mandatory only for those modems that
      implement a data compression protocol."
```

```
 ::= { mdmCompliances 1 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-MIB
No license file was found, but licenses were detected in source scan.

```
IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

 IMPORTS
   MODULE-IDENTITY, mib-2       FROM SNMPv2-SMI
   TEXTUAL-CONVENTION           FROM SNMPv2-TC;

 ianaItuAlarmNumbers MODULE-IDENTITY
    LAST-UPDATED "200409090000Z"  -- September 09, 2004
    ORGANIZATION "IANA"
    CONTACT-INFO
       "Postal:    Internet Assigned Numbers Authority
                   Internet Corporation for Assigned Names
                   and Numbers
                   4676 Admiralty Way, Suite 330
                   Marina del Rey, CA 90292-6601
                   USA

        Tel:    +1  310-823-9358
        E-Mail: iana&iana.org"
    DESCRIPTION
       "The MIB module defines the ITU Alarm
       textual convention for objects expected to require
       regular extension.

       Copyright (C) The Internet Society (2004).  The
       initial version
of this MIB module was published
       in RFC 3877. For full legal notices see the RFC
       itself. Supplementary information may be available on:
           http://www.ietf.org/copyrights/ianamib.html"
     REVISION    "200409090000Z"
     DESCRIPTION
        "Initial version, published as RFC 3877."
    ::= { mib-2 119 }


 IANAItuProbableCause ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
```

"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.
IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved
for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a
first-come, first served basis and will be assigned
enumeration values starting with 1025.

Request should come in the form of well-formed
SMI [RFC2578] for enumeration names that are unique and
sufficiently descriptive.

While some effort will be taken to ensure that new probable
causes do not conceptually duplicate existing probable
causes it is acknowledged that the existence of conceptual
duplicates in the starting probable cause list is an known
industry reality.

To aid IANA in the administration of probable cause names
and values, the OPS Area Director will appoint one or more
experts to help review requests.

See http://www.iana.org"
REFERENCE
"ITU Recommendation M.3100,
'Generic Network Information
Model', 1995
ITU Recommendation X.733, 'Information Technology - Open
Systems Interconnection - System Management: Alarm
Reporting Function', 1992
ITU Recommendation X.736, 'Information Technology - Open
Systems Interconnection - System Management: Security
Alarm Reporting Function', 1992"

SYNTAX INTEGER
{
-- The following probable causes were defined in M.3100
aIS (1),
callSetUpFailure (2),

```
        degradedSignal  (3),
        farEndReceiverFailure  (4),
        framingError  (5),
        lossOfFrame (6),
        lossOfPointer  (7),
        lossOfSignal  (8),
        payloadTypeMismatch (9),
        transmissionError (10),
        remoteAlarmInterface (11),
        excessiveBER  (12),

pathTraceMismatch  (13),
        unavailable  (14),
        signalLabelMismatch (15),
        lossOfMultiFrame (16),
        receiveFailure (17),
        transmitFailure (18),
        modulationFailure (19),
        demodulationFailure (20),
        broadcastChannelFailure (21),
        connectionEstablishmentError (22),
        invalidMessageReceived (23),
        localNodeTransmissionError (24),
        remoteNodeTransmissionError (25),
        routingFailure (26),
 --Values 27-50 are reserved for communications alarm related
 --probable causes
 -- The following are used with equipment alarm.
        backplaneFailure (51),
        dataSetProblem  (52),
        equipmentIdentifierDuplication  (53),
        externalIFDeviceProblem  (54),
        lineCardProblem (55),
        multiplexerProblem  (56),
        nEIdentifierDuplication
(57),
        powerProblem  (58),
        processorProblem  (59),
        protectionPathFailure  (60),
        receiverFailure  (61),
        replaceableUnitMissing  (62),
        replaceableUnitTypeMismatch (63),
        synchronizationSourceMismatch  (64),
        terminalProblem   (65),
        timingProblem   (66),
        transmitterFailure  (67),
        trunkCardProblem  (68),
        replaceableUnitProblem  (69),
```

```
        realTimeClockFailure (70),
--An equipment alarm to be issued if the system detects that the
--real time clock has failed
        antennaFailure (71),
        batteryChargingFailure (72),
        diskFailure (73),
        frequencyHoppingFailure (74),
        iODeviceError (75),
        lossOfSynchronisation (76),
        lossOfRedundancy (77),
        powerSupplyFailure (78),
         signalQualityEvaluationFailure (79),
        tranceiverFailure (80),
        protectionMechanismFailure (81),
        protectingResourceFailure (82),
-- Values 83-100 are reserved for equipment alarm related probable
-- causes
-- The following are used with environmental alarm.
        airCompressorFailure  (101),
        airConditioningFailure  (102),
        airDryerFailure   (103),
        batteryDischarging  (104),
        batteryFailure   (105),
        commercialPowerFailure  (106),
        coolingFanFailure  (107),
        engineFailure  (108),
        fireDetectorFailure  (109),
        fuseFailure  (110),
        generatorFailure  (111),
        lowBatteryThreshold (112),
        pumpFailure  (113),
        rectifierFailure  (114),
        rectifierHighVoltage  (115),
        rectifierLowFVoltage
(116),
        ventilationsSystemFailure  (117),
        enclosureDoorOpen  (118),
        explosiveGas  (119),
        fire (120),
        flood   (121),
        highHumidity  (122),
        highTemperature  (123),
        highWind  (124),
        iceBuildUp  (125),
        intrusionDetection  (126),
        lowFuel  (127),
        lowHumidity  (128),
        lowCablePressure  (129),
```

```
            lowTemperatue  (130),
            lowWater  (131),
            smoke  (132),
            toxicGas  (133),
            coolingSystemFailure (134),
            externalEquipmentFailure (135),
            externalPointFailure (136),
    -- Values 137-150 are reserved for environmental alarm related
    -- probable causes
    -- The following are used with Processing error alarm.
            storageCapacityProblem (151),
            memoryMismatch  (152),

           corruptData  (153),
            outOfCPUCycles   (154),
            sfwrEnvironmentProblem  (155),
            sfwrDownloadFailure  (156),
            lossOfRealTimel (157),
    --A processing error alarm to be issued after the system has
    --reinitialised. This will indicate
    --to the management systems that the view they have of the managed
    --system may no longer
    --be valid. Usage example: The managed
    --system issues this alarm after a reinitialization with severity
    --warning to inform the
    --management system about the event. No clearing notification will
    --be sent.
            applicationSubsystemFailure (158),
            configurationOrCustomisationError (159),
            databaseInconsistency (160),
            fileError (161),
            outOfMemory (162),
            softwareError (163),
            timeoutExpired (164),
            underlayingResourceUnavailable (165),
            versionMismatch
(166),
    --Values 168-200 are reserved for processing error alarm related
    -- probable causes.
            bandwidthReduced (201),
            congestion (202),
            excessiveErrorRate (203),
            excessiveResponseTime (204),
            excessiveRetransmissionRate (205),
            reducedLoggingCapability (206),
            systemResourcesOverload (207 ),
            -- The following were defined X.733
            adapterError (500),
```

applicationSubsystemFailture (501),
bandwidthReducedX733 (502),
callEstablishmentError (503),
communicationsProtocolError (504),
communicationsSubsystemFailure (505),
configurationOrCustomizationError (506),
congestionX733 (507),
coruptData (508),
cpuCyclesLimitExceeded (509),
dataSetOrModemError (510),
degradedSignalX733
(511),
dteDceInterfaceError (512),
enclosureDoorOpenX733 (513),
equipmentMalfunction (514),
excessiveVibration (515),
fileErrorX733 (516),
fireDetected (517),
framingErrorX733 (518),
heatingVentCoolingSystemProblem (519),
humidityUnacceptable (520),
inputOutputDeviceError (521),
inputDeviceError (522),
lanError (523),
leakDetected (524),
localNodeTransmissionErrorX733 (525),
lossOfFrameX733 (526),
lossOfSignalX733 (527),
materialSupplyExhausted (528),
multiplexerProblemX733 (529),
outOfMemoryX733 (530),
ouputDeviceError (531),
performanceDegraded (532),
powerProblems (533),
pressureUnacceptable (534),

processorProblems (535),
pumpFailureX733 (536),
queueSizeExceeded (537),
receiveFailureX733 (538),
receiverFailureX733 (539),
remoteNodeTransmissionErrorX733 (540),
resourceAtOrNearingCapacity (541),
responseTimeExecessive (542),
retransmissionRateExcessive (543),
softwareErrorX733 (544),
softwareProgramAbnormallyTerminated (545),
softwareProgramError (546),

```
            storageCapacityProblemX733 (547),
            temperatureUnacceptable (548),
            thresholdCrossed (549),
            timingProblemX733 (550),
            toxicLeakDetected (551),
            transmitFailureX733 (552),
            transmiterFailure (553),
            underlyingResourceUnavailable (554),
            versionMismatchX733 (555),
            -- The following are defined in X.736

          authenticationFailure (600),
            breachOfConfidentiality (601),
            cableTamper (602),
            delayedInformation (603),
            denialOfService (604),
            duplicateInformation (605),
            informationMissing (606),
            informationModificationDetected (607),
            informationOutOfSequence (608),
            keyExpired (609),
            nonRepudiationFailure (610),
            outOfHoursActivity (611),
            outOfService (612),
            proceduralError (613),
            unauthorizedAccessAttempt (614),
            unexpectedInformation (615),

            other (1024)
            }

IANAItuEventType ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
          "The ITU event Type values.

          The Internet Assigned Number Authority (IANA) is
          responsible for the assignment of the enumerations

  in this TC.

          Request should  come in the form of well-formed
          SMI [RFC2578] for enumeration names that are unique
          and sufficiently descriptive.

          See http://www.iana.org "
    REFERENCE
         "ITU Recommendation X.736, 'Information Technology - Open
```

```
          Systems Interconnection - System Management: Security
          Alarm Reporting Function', 1992"
    SYNTAX        INTEGER
          {
          other (1),
          communicationsAlarm (2),
          qualityOfServiceAlarm (3),
          processingErrorAlarm (4),
          equipmentAlarm (5),
          environmentalAlarm (6),
          integrityViolation (7),
          operationalViolation (8),
          physicalViolation (9),
          securityServiceOrMechanismViolation (10),
          timeDomainViolation (11)
          }

 END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/iana/IANA-ITU-ALARM-TC-MIB
No license file was found, but licenses were detected in source scan.

```
SNMPv2-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE, NOTIFICATION-TYPE,
  TimeTicks, Counter32, snmpModules, mib-2
     FROM SNMPv2-SMI
  DisplayString, TestAndIncr, TimeStamp




     FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
     FROM SNMPv2-CONF;

snmpMIB MODULE-IDENTITY
  LAST-UPDATED "200210160000Z"
  ORGANIZATION "IETF SNMPv3 Working Group"
  CONTACT-INFO
        "WG-EMail:   snmpv3@lists.tislabs.com
         Subscribe:  snmpv3-request@lists.tislabs.com

         Co-Chair:   Russ Mundy
                  Network Associates Laboratories
         postal:     15204 Omega Drive, Suite 300
                  Rockville, MD 20850-4601
```

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Editor: Randy Presuhn
BMC Software, Inc.
postal: 2141 North First Street
San Jose, CA 95131
USA
EMail: randy_presuhn@bmc.com
phone: +1 408 546-1006"
DESCRIPTION
"The MIB module for SNMP entities.

Copyright (C) The Internet Society (2002). This
version of this MIB module is part of RFC 3418;
see the RFC itself for full legal notices.
"
REVISION "200210160000Z"
DESCRIPTION
"This revision of this MIB module was published as
RFC 3418."
REVISION "199511090000Z"
DESCRIPTION

"This revision of this MIB module was published as
RFC 1907."
REVISION "199304010000Z"
DESCRIPTION
"The initial revision of this MIB module was published
as RFC 1450."
::= { snmpModules 1 }

snmpMIBObjects OBJECT IDENTIFIER ::= { snmpMIB 1 }

```
--  ::= { snmpMIBObjects 1 }       this OID is obsolete
--  ::= { snmpMIBObjects 2 }       this OID is obsolete
--  ::= { snmpMIBObjects 3 }       this OID is obsolete

-- the System group
--
-- a collection of objects common to all managed systems.

system   OBJECT IDENTIFIER ::= { mib-2 1 }

sysDescr OBJECT-TYPE
  SYNTAX      DisplayString (SIZE (0..255))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "A textual description of the entity.  This value should
        include the full name and version identification of
        the system's hardware type, software operating-system,
        and networking software."
  ::= { system 1 }

sysObjectID
 OBJECT-TYPE
  SYNTAX      OBJECT IDENTIFIER
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The vendor's authoritative identification of the
        network management subsystem contained in the entity.
        This value is allocated within the SMI enterprises
        subtree (1.3.6.1.4.1) and provides an easy and
        unambiguous means for determining `what kind of box' is
        being managed.  For example, if vendor `Flintstones,
        Inc.' was assigned the subtree 1.3.6.1.4.1.424242,
        it could assign the identifier 1.3.6.1.4.1.424242.1.1
        to its `Fred Router'."
  ::= { system 2 }

sysUpTime OBJECT-TYPE



  SYNTAX      TimeTicks
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
        "The time (in hundredths of a second) since the
        network management portion of the system was last
```

re-initialized."
::= { system 3 }

sysContact OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The textual identification of the contact person for this managed node, together with information on how to contact this person. If no contact information is known, the value is the zero-length string."
::= { system 4 }

sysName OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"An administratively-assigned name for this managed node. By convention, this is the node's fully-qualified domain name. If the name is unknown, the value is the zero-length string."
::= { system 5 }

sysLocation OBJECT-TYPE
SYNTAX DisplayString (SIZE (0..255))
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The physical location of this node (e.g., 'telephone closet,
3rd floor'). If the location is unknown, the
value is the zero-length string."
::= { system 6 }

sysServices OBJECT-TYPE
SYNTAX INTEGER (0..127)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A value which indicates the set of services that this entity may potentially offer. The value is a sum.

This sum initially takes the value zero. Then, for each layer, L, in the range 1 through 7, that this node

```
        performs transactions for, 2 raised to (L - 1) is added
        to the sum.  For example, a node which performs only
        routing functions would have a value of 4 (2^(3-1)).
        In contrast, a node which is a host offering application
        services would have a value of 72 (2^(4-1) + 2^(7-1)).
        Note that in the context of the Internet suite of
        protocols, values should be calculated accordingly:

            layer     functionality
              1       physical (e.g., repeaters)
              2       datalink/subnetwork (e.g., bridges)
              3       internet (e.g., supports the IP)
              4       end-to-end  (e.g., supports the TCP)
              7       applications (e.g., supports the SMTP)

        For systems including OSI protocols, layers 5 and 6
        may also be counted."
    ::= { system 7 }

-- object resource information
--
-- a collection of objects which describe the SNMP entity's
-- (statically and dynamically configurable) support of
-- various MIB modules.

sysORLastChange OBJECT-TYPE
    SYNTAX     TimeStamp
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
        "The value of sysUpTime at the time of the most recent
        change in state or value of any instance of sysORID."
    ::= { system 8 }

sysORTable OBJECT-TYPE
    SYNTAX     SEQUENCE OF SysOREntry
    MAX-ACCESS not-accessible
    STATUS     current
    DESCRIPTION
        "The (conceptual) table listing the capabilities of
        the local SNMP application acting as a command
        responder with respect to various MIB modules.
        SNMP entities having dynamically-configurable support
        of MIB modules will have a dynamically-varying number
        of conceptual rows."
    ::= { system 9 }
```

```
sysOREntry OBJECT-TYPE
  SYNTAX     SysOREntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
        "An entry (conceptual row) in the sysORTable."
  INDEX      { sysORIndex }
  ::= { sysORTable 1 }

SysOREntry ::= SEQUENCE {
  sysORIndex     INTEGER,
  sysORID        OBJECT IDENTIFIER,
  sysORDescr     DisplayString,
  sysORUpTime    TimeStamp
}

sysORIndex OBJECT-TYPE
  SYNTAX     INTEGER (1..2147483647)
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
        "The auxiliary variable used for identifying instances
        of the columnar
 objects in the sysORTable."
  ::= { sysOREntry 1 }

sysORID OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "An authoritative identification of a capabilities
        statement with respect to various MIB modules supported
        by the local SNMP application acting as a command
        responder."
  ::= { sysOREntry 2 }

sysORDescr OBJECT-TYPE
  SYNTAX     DisplayString
  MAX-ACCESS read-only
  STATUS     current
  DESCRIPTION
        "A textual description of the capabilities identified
        by the corresponding instance of sysORID."
  ::= { sysOREntry 3 }

sysORUpTime OBJECT-TYPE
```

```
    SYNTAX     TimeStamp
    MAX-ACCESS read-only



    STATUS     current
    DESCRIPTION
            "The value of sysUpTime at the time this conceptual
            row was last instantiated."
    ::= { sysOREntry 4 }


-- the SNMP group
--
-- a collection of objects providing basic instrumentation
 and
-- control of an SNMP entity.

snmp     OBJECT IDENTIFIER ::= { mib-2 11 }

snmpInPkts OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
            "The total number of messages delivered to the SNMP
            entity from the transport service."
    ::= { snmp 1 }

snmpInBadVersions OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
            "The total number of SNMP messages which were delivered
            to the SNMP entity and were for an unsupported SNMP
            version."
    ::= { snmp 3 }

snmpInBadCommunityNames OBJECT-TYPE
    SYNTAX     Counter32
    MAX-ACCESS read-only
    STATUS     current
    DESCRIPTION
           "The total number of community-based SNMP messages (for
           example,  SNMPv1) delivered to the SNMP entity which
           used an SNMP community name not known to said entity.
           Also, implementations which authenticate community-based
```

SNMP messages using check(s) in addition to matching
the community name (for example, by also checking
whether the message originated from a transport address
allowed to use a specified community name) MAY include
in this value the number of messages which failed the
additional check(s). It is strongly RECOMMENDED that

the documentation for any security model which is used
to authenticate community-based SNMP messages specify
the precise conditions that contribute to this value."
::= { snmp 4 }

snmpInBadCommunityUses OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of community-based SNMP messages (for
example, SNMPv1) delivered to the SNMP entity which
represented an SNMP operation that was not allowed for
the SNMP community named in the message. The precise
conditions under which this counter is incremented
(if at all) depend on how the SNMP entity implements
its access control mechanism and how its applications
interact with that access control mechanism. It is
strongly RECOMMENDED that the documentation for any
access control mechanism which is used to control access
to and visibility of MIB instrumentation specify the
precise conditions that contribute to this value."
::= { snmp 5 }

snmpInASNParseErrs OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of ASN.1 or BER errors encountered by
the SNMP entity when decoding received SNMP messages."
::= { snmp 6 }

snmpEnableAuthenTraps OBJECT-TYPE
SYNTAX INTEGER { enabled(1), disabled(2) }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Indicates whether the

SNMP entity is permitted to
generate authenticationFailure traps. The value of this object overrides any configuration information; as such, it provides a means whereby all authenticationFailure traps may be disabled.

Note that it is strongly recommended that this object be stored in non-volatile memory so that it remains constant across re-initializations of the network management system."

::= { snmp 30 }

snmpSilentDrops OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a

Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the request."
::= { snmp 31 }

snmpProxyDrops OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the transmission of the (possibly translated) message to a proxy target failed in a manner (other than a time-out) such that no Response Class PDU (such as a Response-PDU) could be returned."
::= { snmp 32 }

```
-- information for notifications
--
-- a collection of objects which allow the SNMP entity, when
-- supporting a notification
 originator application,
-- to be configured to generate SNMPv2-Trap-PDUs.

snmpTrap      OBJECT IDENTIFIER ::= { snmpMIBObjects 4 }

snmpTrapOID OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS accessible-for-notify
  STATUS     current
  DESCRIPTION



        "The authoritative identification of the notification
        currently being sent.  This variable occurs as
        the second varbind in every SNMPv2-Trap-PDU and
        InformRequest-PDU."
  ::= { snmpTrap 1 }

--  ::= { snmpTrap 2 }   this OID is obsolete

snmpTrapEnterprise OBJECT-TYPE
  SYNTAX     OBJECT IDENTIFIER
  MAX-ACCESS accessible-for-notify
  STATUS     current
  DESCRIPTION
        "The authoritative identification of the enterprise
        associated with the trap currently being sent.  When an
        SNMP proxy agent is mapping an RFC1157 Trap-PDU
        into a SNMPv2-Trap-PDU, this variable occurs as the
        last varbind."
  ::= { snmpTrap
 3 }

--  ::= { snmpTrap 4 }   this OID is obsolete


-- well-known traps

snmpTraps      OBJECT IDENTIFIER ::= { snmpMIBObjects 5 }

coldStart NOTIFICATION-TYPE
  STATUS  current
```

```
  DESCRIPTION
        "A coldStart trap signifies that the SNMP entity,
        supporting a notification originator application, is
        reinitializing itself and that its configuration may
        have been altered."
  ::= { snmpTraps 1 }

warmStart NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
        "A warmStart trap signifies that the SNMP entity,
        supporting a notification originator application,
        is reinitializing itself such that its configuration
        is unaltered."
  ::= { snmpTraps 2 }

-- Note the linkDown NOTIFICATION-TYPE ::= { snmpTraps 3 }
-- and the linkUp NOTIFICATION-TYPE ::= { snmpTraps 4 }
-- are defined in RFC 2863 [RFC2863]



authenticationFailure NOTIFICATION-TYPE
  STATUS  current
  DESCRIPTION
        "An
 authenticationFailure trap signifies that the SNMP
        entity has received a protocol message that is not
        properly authenticated.  While all implementations
        of SNMP entities MAY be capable of generating this
        trap, the snmpEnableAuthenTraps object indicates
        whether this trap will be generated."
  ::= { snmpTraps 5 }

-- Note the egpNeighborLoss notification is defined
-- as { snmpTraps 6 } in RFC 1213

-- the set group
--
-- a collection of objects which allow several cooperating
-- command generator applications to coordinate their use of the
-- set operation.

snmpSet       OBJECT IDENTIFIER ::= { snmpMIBObjects 6 }

snmpSetSerialNo OBJECT-TYPE
  SYNTAX     TestAndIncr
  MAX-ACCESS read-write
```

```
  STATUS     current
  DESCRIPTION
          "An advisory lock used to allow several cooperating
          command generator applications to coordinate their
          use of the SNMP set operation.

          This
 object is used for coarse-grain coordination.
          To achieve fine-grain coordination, one or more similar
          objects might be defined within each MIB group, as
          appropriate."
  ::= { snmpSet 1 }

-- conformance information

snmpMIBConformance
           OBJECT IDENTIFIER ::= { snmpMIB 2 }

snmpMIBCompliances
           OBJECT IDENTIFIER ::= { snmpMIBConformance 1 }
snmpMIBGroups  OBJECT IDENTIFIER ::= { snmpMIBConformance 2 }

-- compliance statements




--    ::= { snmpMIBCompliances 1 }      this OID is obsolete
snmpBasicCompliance MODULE-COMPLIANCE
  STATUS  deprecated
  DESCRIPTION
          "The compliance statement for SNMPv2 entities which
          implement the SNMPv2 MIB.

          This compliance statement is replaced by
          snmpBasicComplianceRev2."
  MODULE  -- this module
     MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                        snmpBasicNotificationsGroup }

     GROUP   snmpCommunityGroup
      DESCRIPTION
          "This group is mandatory for SNMPv2 entities which
          support community-based authentication."

  ::= { snmpMIBCompliances 2 }

snmpBasicComplianceRev2 MODULE-COMPLIANCE
```

```
  STATUS  current
  DESCRIPTION
          "The compliance statement for SNMP entities which
          implement this MIB module."
  MODULE  -- this module
    MANDATORY-GROUPS { snmpGroup, snmpSetGroup, systemGroup,
                       snmpBasicNotificationsGroup }

    GROUP   snmpCommunityGroup
    DESCRIPTION
      "This group is mandatory for SNMP entities which
      support community-based authentication."

    GROUP   snmpWarmStartNotificationGroup
    DESCRIPTION
      "This group is mandatory for an SNMP entity which
      supports command responder applications, and is
      able to reinitialize itself such that its
      configuration is unaltered."

  ::= { snmpMIBCompliances
 3 }

-- units of conformance

--  ::= { snmpMIBGroups 1 }          this OID is obsolete
--  ::= { snmpMIBGroups 2 }          this OID is obsolete
--  ::= { snmpMIBGroups 3 }          this OID is obsolete



--  ::= { snmpMIBGroups 4 }          this OID is obsolete

snmpGroup OBJECT-GROUP
  OBJECTS { snmpInPkts,
            snmpInBadVersions,
            snmpInASNParseErrs,
            snmpSilentDrops,
            snmpProxyDrops,
            snmpEnableAuthenTraps }
  STATUS  current
  DESCRIPTION
          "A collection of objects providing basic instrumentation
          and control of an SNMP entity."
  ::= { snmpMIBGroups 8 }

snmpCommunityGroup OBJECT-GROUP
  OBJECTS { snmpInBadCommunityNames,
```

```
            snmpInBadCommunityUses }
    STATUS  current
    DESCRIPTION
            "A collection of objects providing basic instrumentation
            of a SNMP entity which supports community-based
            authentication."
    ::= { snmpMIBGroups 9 }

snmpSetGroup
 OBJECT-GROUP
    OBJECTS { snmpSetSerialNo }
    STATUS  current
    DESCRIPTION
            "A collection of objects which allow several cooperating
            command generator applications to coordinate their
            use of the set operation."
    ::= { snmpMIBGroups 5 }

systemGroup OBJECT-GROUP
    OBJECTS { sysDescr, sysObjectID, sysUpTime,
              sysContact, sysName, sysLocation,
              sysServices,
              sysORLastChange, sysORID,
              sysORUpTime, sysORDescr }
    STATUS  current
    DESCRIPTION
            "The system group defines objects which are common to all
            managed systems."
    ::= { snmpMIBGroups 6 }

snmpBasicNotificationsGroup NOTIFICATION-GROUP
    NOTIFICATIONS { coldStart, authenticationFailure }



    STATUS        current
    DESCRIPTION
      "The basic notifications implemented by an SNMP entity
       supporting command responder applications."
    ::= { snmpMIBGroups 7 }

snmpWarmStartNotificationGroup
 NOTIFICATION-GROUP
  NOTIFICATIONS { warmStart }
  STATUS        current
  DESCRIPTION
    "An additional notification for an SNMP entity supporting
    command responder applications, if it is able to reinitialize
```

```
    itself such that its configuration is unaltered."
 ::= { snmpMIBGroups 11 }

snmpNotificationGroup OBJECT-GROUP
  OBJECTS { snmpTrapOID, snmpTrapEnterprise }
  STATUS  current
  DESCRIPTION
        "These objects are required for entities
        which support notification originator applications."
  ::= { snmpMIBGroups 12 }

-- definitions in RFC 1213 made obsolete by the inclusion of a
-- subset of the snmp group in this MIB

snmpOutPkts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Messages which were
        passed from the SNMP protocol entity to the
        transport service."
  ::= { snmp 2 }

-- { snmp 7 } is not used

snmpInTooBigs
 OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field was
        `tooBig'."
  ::= { snmp 8 }



snmpInNoSuchNames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field was
```

```
        `noSuchName'."
  ::= { snmp 9 }

snmpInBadValues OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were
        delivered to the SNMP protocol entity and for
        which the value of the error-status field was
        `badValue'."
  ::= { snmp 10 }

snmpInReadOnlys
 OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number valid SNMP PDUs which were delivered
        to the SNMP protocol entity and for which the value
        of the error-status field was `readOnly'.  It should
        be noted that it is a protocol error to generate an
        SNMP PDU which contains the value `readOnly' in the
        error-status field, as such this object is provided
        as a means of detecting incorrect implementations of
        the SNMP."
  ::= { snmp 11 }

snmpInGenErrs OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were delivered
        to the SNMP protocol entity and for which the value
        of the error-status field was `genErr'."
  ::= { snmp 12 }

snmpInTotalReqVars OBJECT-TYPE



  SYNTAX      Counter32
   MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
```

```
        "The total number of MIB objects which have been
        retrieved successfully by the SNMP protocol entity
        as the result of receiving valid SNMP Get-Request
        and Get-Next PDUs."
    ::= { snmp 13 }

snmpInTotalSetVars OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of MIB objects which have been
        altered successfully by the SNMP protocol entity as
        the result of receiving valid SNMP Set-Request PDUs."
    ::= { snmp 14 }

snmpInGetRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been accepted and processed by the SNMP
        protocol entity."
    ::= { snmp 15 }

snmpInGetNexts OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS
   read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have been
        accepted and processed by the SNMP protocol entity."
    ::= { snmp 16 }

snmpInSetRequests OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      obsolete
    DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been accepted and processed by the SNMP protocol
        entity."
    ::= { snmp 17 }
```

```
snmpInGetResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been accepted and processed by the SNMP protocol
        entity."
  ::= { snmp 18 }

snmpInTraps OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have been
        accepted and
 processed by the SNMP protocol entity."
  ::= { snmp 19 }

snmpOutTooBigs OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status field was `tooBig.'"
  ::= { snmp 20 }

snmpOutNoSuchNames OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status was `noSuchName'."
  ::= { snmp 21 }

snmpOutBadValues OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status field was
```

```
 `badValue'."
  ::= { snmp 22 }



-- { snmp 23 } is not used

snmpOutGenErrs OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP PDUs which were generated
        by the SNMP protocol entity and for which the value
        of the error-status field was `genErr'."
  ::= { snmp 24 }

snmpOutGetRequests OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Request PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 25 }

snmpOutGetNexts OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Get-Next PDUs which have
        been generated by the SNMP protocol entity."
  ::= { snmp 26 }

snmpOutSetRequests OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
   STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Set-Request PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 27 }

snmpOutGetResponses OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
```

```
  DESCRIPTION
        "The total number of SNMP Get-Response PDUs which
        have been generated by the SNMP protocol entity."
  ::= { snmp 28 }



snmpOutTraps OBJECT-TYPE
  SYNTAX      Counter32
  MAX-ACCESS  read-only
  STATUS      obsolete
  DESCRIPTION
        "The total number of SNMP Trap PDUs which have
        been generated by the SNMP protocol entity."
  ::= { snmp 29 }

snmpObsoleteGroup OBJECT-GROUP
  OBJECTS { snmpOutPkts, snmpInTooBigs, snmpInNoSuchNames,
            snmpInBadValues, snmpInReadOnlys, snmpInGenErrs,
            snmpInTotalReqVars, snmpInTotalSetVars,
            snmpInGetRequests, snmpInGetNexts, snmpInSetRequests,

    snmpInGetResponses, snmpInTraps, snmpOutTooBigs,
            snmpOutNoSuchNames, snmpOutBadValues,
            snmpOutGenErrs, snmpOutGetRequests, snmpOutGetNexts,
            snmpOutSetRequests, snmpOutGetResponses, snmpOutTraps
            }
  STATUS  obsolete
  DESCRIPTION
        "A collection of objects from RFC 1213 made obsolete
        by this MIB module."
  ::= { snmpMIBGroups 10 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-MIB
No license file was found, but licenses were detected in source scan.

SNMP-USM-DH-OBJECTS-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, OBJECT-TYPE,
  -- OBJECT-IDENTITY,
  experimental, Integer32
     FROM SNMPv2-SMI
  TEXTUAL-CONVENTION
```

```
    FROM SNMPv2-TC
  MODULE-COMPLIANCE, OBJECT-GROUP
    FROM SNMPv2-CONF
  usmUserEntry
    FROM SNMP-USER-BASED-SM-MIB
  SnmpAdminString
    FROM SNMP-FRAMEWORK-MIB;

snmpUsmDHObjectsMIB MODULE-IDENTITY
  LAST-UPDATED "200003060000Z"  -- 6 March 2000, Midnight
  ORGANIZATION "Excite@Home"
  CONTACT-INFO "Author: Mike StJohns
            Postal: Excite@Home
                 450 Broadway
                 Redwood City, CA 94063
            Email:  stjohns@corp.home.net
            Phone:  +1-650-556-5368"

  DESCRIPTION
     "The management information definitions for providing forward
  secrecy for key changes for the usmUserTable, and for providing a
  method
 for 'kickstarting' access to the agent via a Diffie-Helman
  key agreement."

  REVISION     "200003060000Z"
  DESCRIPTION
    "Initial version published as RFC 2786."


  ::= { experimental 101 }  -- IANA DHKEY-CHANGE 101

-- Administrative assignments

usmDHKeyObjects OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 1 }
usmDHKeyConformance OBJECT IDENTIFIER ::= { snmpUsmDHObjectsMIB 2 }

-- Textual conventions

DHKeyChange ::=         TEXTUAL-CONVENTION
  STATUS             current
  DESCRIPTION
     "Upon initialization, or upon creation of a row containing an
  object of this type, and after any successful SET of this value, a
  GET of this value returns 'y' where y = g^xa MOD p, and where g is
  the base from usmDHParameters, p is the prime from
  usmDHParameters, and xa is a new random integer selected by the
  agent in the interval 2^(l-1) <= xa < 2^l < p-1.  'l' is the
```

```
  optional privateValueLength from usmDHParameters in bits.  If 'l'
  is omitted,
 then xa (and xr below) is selected in the interval 0
  <= xa < p-1.  y is expressed as an OCTET STRING 'PV' of length 'k'
  which satisfies

          k
      y =  SUM   2^(8(k-i)) PV'i
          i=1

      where PV1,...,PVk are the octets of PV from first to last, and
      where PV1 <> 0.

  A successful SET consists of the value 'y' expressed as an OCTET
  STRING as above concatenated with the value 'z'(expressed as an
  OCTET STRING in the same manner as y) where z = g^xr MOD p, where
  g, p and l are as above, and where xr is a new random integer
  selected by the manager in the interval 2^(l-1) <= xr < 2^l <
  p-1. A SET to an object of this type will fail with the error
  wrongValue if the current 'y' does not match the 'y' portion of
  the value of the varbind for the object. (E.g. GET yout, SET
  concat(yin, z), yout <> yin).

  Note that the private values xa and xr are never transmitted from
  manager to device or vice versa, only the values
 y and z.
  Obviously, these values must be retained until a successful SET on
  the associated object.

  The shared secret 'sk' is calculated at the agent as sk = z^xa MOD
  p, and at the manager as sk = y^xr MOD p.

  Each object definition of this type MUST describe how to map from
  the shared secret 'sk' to the operational key value used by the
  protocols and operations related to the object.  In general, if n
  bits of key are required, the author suggests using the n
  right-most bits of the shared secret as the operational key value."
  REFERENCE
     "-- Diffie-Hellman Key-Agreement Standard, PKCS #3;
        RSA Laboratories, November 1993"
  SYNTAX            OCTET STRING

-- Diffie Hellman public values

usmDHPublicObjects      OBJECT IDENTIFIER ::= { usmDHKeyObjects 1 }

usmDHParameters OBJECT-TYPE
  SYNTAX  OCTET STRING
```

```
  MAX-ACCESS read-write
  STATUS  current
  DESCRIPTION
     "The public Diffie-Hellman parameters for doing
 a Diffie-Hellman
  key agreement for this device.  This is encoded as an ASN.1
  DHParameter per PKCS #3, section 9.  E.g.

     DHParameter ::= SEQUENCE {
       prime   INTEGER,   -- p
       base    INTEGER,   -- g
       privateValueLength  INTEGER OPTIONAL }


  Implementors are encouraged to use either the values from
  Oakley Group 1  or the values of from Oakley Group 2 as specified
  in RFC-2409, The Internet Key Exchange, Section 6.1, 6.2 as the
  default for this object.  Other values may be used, but the
  security properties of those values MUST be well understood and
  MUST meet the requirements of PKCS #3 for the selection of
  Diffie-Hellman primes.

     In addition, any time usmDHParameters changes, all values of
  type DHKeyChange will change and new random numbers MUST be
  generated by the agent for each DHKeyChange object."
  REFERENCE
     "-- Diffie-Hellman Key-Agreement Standard, PKCS #3,
        RSA Laboratories,
 November 1993
      -- The Internet Key Exchange, RFC 2409, November 1998,
        Sec 6.1, 6.2"
  ::= { usmDHPublicObjects 1 }

usmDHUserKeyTable OBJECT-TYPE
  SYNTAX  SEQUENCE OF UsmDHUserKeyEntry
  MAX-ACCESS not-accessible
  STATUS  current
  DESCRIPTION
     "This table augments and extends the usmUserTable and provides
  4 objects which exactly mirror the objects in that table with the
  textual convention of 'KeyChange'.  This extension allows key
  changes to be done in a manner where the knowledge of the current
  secret plus knowledge of the key change data exchanges (e.g. via
  wiretapping)  will not reveal the new key."
  ::= { usmDHPublicObjects 2 }

usmDHUserKeyEntry OBJECT-TYPE
  SYNTAX  UsmDHUserKeyEntry
```

```
  MAX-ACCESS not-accessible
  STATUS  current
  DESCRIPTION
     "A row of DHKeyChange objects which augment or replace the
  functionality of the KeyChange objects in the base table row."
  AUGMENTS { usmUserEntry }
   ::= {usmDHUserKeyTable 1 }

UsmDHUserKeyEntry ::= SEQUENCE {
      usmDHUserAuthKeyChange          DHKeyChange,
  usmDHUserOwnAuthKeyChange   DHKeyChange,
      usmDHUserPrivKeyChange          DHKeyChange,
      usmDHUserOwnPrivKeyChange       DHKeyChange
      }

usmDHUserAuthKeyChange OBJECT-TYPE
  SYNTAX  DHKeyChange
  MAX-ACCESS read-create
  STATUS  current
  DESCRIPTION
     "The object used to change any given user's Authentication Key
  using a Diffie-Hellman key exchange.

  The right-most n bits of the shared secret 'sk', where 'n' is the
  number of bits required for the protocol defined by
  usmUserAuthProtocol, are installed as the operational
  authentication key for this row after a successful SET."
  ::= { usmDHUserKeyEntry 1 }

usmDHUserOwnAuthKeyChange OBJECT-TYPE
  SYNTAX  DHKeyChange
  MAX-ACCESS read-create
  STATUS  current
  DESCRIPTION
     "The object used to change the agents own Authentication Key
  using a Diffie-Hellman
 key exchange.

  The right-most n bits of the shared secret 'sk', where 'n' is the
  number of bits required for the protocol defined by
  usmUserAuthProtocol, are installed as the operational
  authentication key for this row after a successful SET."
  ::= { usmDHUserKeyEntry 2 }

usmDHUserPrivKeyChange OBJECT-TYPE
  SYNTAX  DHKeyChange
  MAX-ACCESS read-create
  STATUS  current
```

```
    DESCRIPTION
        "The object used to change any given user's Privacy Key using
    a Diffie-Hellman key exchange.

    The right-most n bits of the shared secret 'sk', where 'n' is the
    number of bits required for the protocol defined by
    usmUserPrivProtocol, are installed as the operational privacy key
    for this row after a successful SET."
    ::= { usmDHUserKeyEntry 3 }

usmDHUserOwnPrivKeyChange OBJECT-TYPE
    SYNTAX  DHKeyChange
    MAX-ACCESS read-create
    STATUS  current
    DESCRIPTION
        "The object used to change the agent's own Privacy Key using a
     Diffie-Hellman key exchange.

    The right-most n bits of the shared secret 'sk', where 'n' is the
    number of bits required for the protocol defined by
    usmUserPrivProtocol, are installed as the operational privacy key
    for this row after a successful SET."
    ::= { usmDHUserKeyEntry 4 }

usmDHKickstartGroup OBJECT IDENTIFIER ::= { usmDHKeyObjects 2 }

usmDHKickstartTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF UsmDHKickstartEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A table of mappings between zero or more Diffie-Helman key
    agreement values and entries in the usmUserTable.  Entries in this
    table are created by providing the associated device with a
    Diffie-Helman public value and a usmUserName/usmUserSecurityName
    pair during initialization. How these values are provided is
    outside the scope of this MIB, but could be provided manually, or
    through a configuration file.  Valid public value/name pairs
    result
   in the creation of a row in this table as well as the
    creation of an associated row (with keys derived as indicated) in
    the usmUserTable.  The actual access the related usmSecurityName
    has is dependent on the entries in the VACM tables.  In general,
    an implementor will specify one or more standard security names
    and will provide entries in the VACM tables granting various
    levels of access to those names.  The actual content of the VACM
    table is beyond the scope of this MIB.
```

Note: This table is expected to be readable without authentication
using the usmUserSecurityName 'dhKickstart'. See the conformance
statements for details."
::= { usmDHKickstartGroup 1 }

usmDHKickstartEntry OBJECT-TYPE
SYNTAX UsmDHKickstartEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION

"An entry in the usmDHKickstartTable. The agent SHOULD either
delete this entry or mark it as inactive upon a successful SET of
any of the KeyChange-typed objects in the usmUserEntry or upon a
successful SET of any of the DHKeyChange-typed objects in the
usmDhKeyChangeEntry where the related usmSecurityName (e.g. row of
usmUserTable or row of ushDhKeyChangeTable) equals this entry's
usmDhKickstartSecurityName. In otherwords, once you've changed
one or more of the keys for a row in usmUserTable with a
particular security name, the row in this table with that same
security name is no longer useful or meaningful."

INDEX { usmDHKickstartIndex }
::= {usmDHKickstartTable 1 }

UsmDHKickstartEntry ::= SEQUENCE {
usmDHKickstartIndex Integer32,
usmDHKickstartMyPublic OCTET STRING,
usmDHKickstartMgrPublic OCTET STRING,
usmDHKickstartSecurityName SnmpAdminString
}

usmDHKickstartIndex OBJECT-TYPE
SYNTAX Integer32 (1..2147483647)
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Index value for
this row."
::= { usmDHKickstartEntry 1 }

usmDHKickstartMyPublic OBJECT-TYPE
SYNTAX OCTET STRING
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The agent's Diffie-Hellman public value for this row. At
initialization, the agent generates a random number and derives

its public value from that number. This public value is published here. This public value 'y' equals g^r MOD p where g is the from the set of Diffie-Hellman parameters, p is the prime from those parameters, and r is a random integer selected by the agent in the interval 2^(l-1) <= r < p-1 < 2^l. If l is unspecified, then r is a random integer selected in the interval 0 <= r < p-1

The public value is expressed as an OCTET STRING 'PV' of length 'k' which satisfies

$$y = \sum_{i=1}^{k} 2^{(8(k-i))} PV'i$$

where PV1,...,PVk are the octets of PV from first to last, and where PV1 != 0.

The following DH parameters (Oakley group #2, RFC 2409, sec 6.1, 6.2) are used for this object:

g = 2
p = FFFFFFFF FFFFFFFF C90FDAA2 2168C234 C4C6628B 80DC1CD1
29024E08 8A67CC74 020BBEA6 3B139B22 514A0879 8E3404DD
EF9519B3 CD3A431B 302B0A6D F25F1437 4FE1356D 6D51C245
E485B576 625E7EC6 F44C42E9 A637ED6B 0BFF5CB6 F406B7ED
EE386BFB 5A899FA5 AE9F2411 7C4B1FE6 49286651 ECE65381
FFFFFFFF FFFFFFFF
l=1024
"

```
REFERENCE
   "-- Diffie-Hellman Key-Agreement Standard, PKCS#3v1.4;
      RSA Laboratories, November 1993
    -- The Internet Key Exchange, RFC2409;
      Harkins, D., Carrel, D.; November 1998"
::= { usmDHKickstartEntry 2 }

usmDHKickstartMgrPublic OBJECT-TYPE
  SYNTAX      OCTET STRING
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION

    "The manager's Diffie-Hellman public value for this row.  Note
  that this value is not set via the SNMP agent, but may be set via
  some out of band
```

method, such as the device's configuration file.
The manager calculates this value in the same manner and using the same parameter set as the agent does. E.g. it selects a random number 'r', calculates y = g^r mod p and provides 'y' as the public number expressed as an OCTET STRING. See usmDHKickstartMyPublic for details.

When this object is set with a valid value during initialization, a row is created in the usmUserTable with the following values:

usmUserEngineID localEngineID
usmUserName [value of usmDHKickstartSecurityName]
usmUserSecurityName [value of usmDHKickstartSecurityName]
usmUserCloneFrom ZeroDotZero
usmUserAuthProtocol usmHMACMD5AuthProtocol
usmUserAuthKeyChange -- derived from set value
usmUserOwnAuthKeyChange -- derived from set value
usmUserPrivProtocol usmDESPrivProtocol
usmUserPrivKeyChange -- derived from set value
usmUserOwnPrivKeyChange -- derived from set value
usmUserPublic "
usmUserStorageType permanent
usmUserStatus active

A shared secret 'sk' is calculated at the agent as sk = mgrPublic^r mod p where r is the agents random number and p is the DH prime from the common parameters. The underlying privacy key for this row is derived from sk by applying the key derivation function PBKDF2 defined in PKCS#5v2.0 with a salt of 0xd1310ba6, and iterationCount of 500, a keyLength of 16 (for usmDESPrivProtocol), and a prf (pseudo random function) of 'id-hmacWithSHA1'. The underlying authentication key for this row is derived from sk by applying the key derivation function PBKDF2 with a salt of 0x98dfb5ac , an interation count of 500, a keyLength of 16 (for usmHMAC5AuthProtocol), and a prf of 'id-hmacWithSHA1'. Note: The salts are the first two words in the ks0 [key schedule 0] of the BLOWFISH
cipher from 'Applied
Cryptography' by Bruce Schnier - they could be any relatively random string of bits.

The manager can use its knowledge of its own random number and the agent's public value to kickstart its access to the agent in a secure manner. Note that the security of this approach is directly related to the strength of the authorization security of the out of band provisioning of the managers public value (e.g. the configuration file), but is not dependent at all on the strength of the confidentiality of the out of band provisioning

```
  data."
  REFERENCE
     "-- Password-Based Cryptography Standard, PKCS#5v2.0;
        RSA Laboratories, March 1999
      -- Applied Cryptography, 2nd Ed.; B. Schneier,
        Counterpane Systems; John Wiley & Sons, 1996"
  ::= { usmDHKickstartEntry 3 }

usmDHKickstartSecurityName OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      "The usmUserName and usmUserSecurityName in the usmUserTable
  associated with this row.  This is provided in the same manner and
  at the same time as the usmDHKickstartMgrPublic value -
  e.g. possibly manually, or via the device's configuration file."
  ::= { usmDHKickstartEntry 4 }

-- Conformance Information

usmDHKeyMIBCompliances  OBJECT IDENTIFIER ::= { usmDHKeyConformance 1 }
usmDHKeyMIBGroups       OBJECT IDENTIFIER ::= { usmDHKeyConformance 2 }

-- Compliance statements

usmDHKeyMIBCompliance   MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
     "The compliance statement for this module."
  MODULE
     GROUP usmDHKeyMIBBasicGroup
     DESCRIPTION
     "This group MAY be implemented by any agent which
     implements the usmUserTable and which wishes to provide the
     ability to change user and agent authentication and privacy
     keys via Diffie-Hellman key exchanges."

     GROUP usmDHKeyParamGroup
     DESCRIPTION
         "This group MUST be implemented by any agent which
     implements a MIB containing the DHKeyChange Textual
     Convention defined in this module."

     GROUP usmDHKeyKickstartGroup
     DESCRIPTION
        "This group MAY be implemented by any agent which
     implements the usmUserTable and which wishes the ability to
```

populate the USM table based on out-of-band provided DH ignition values.

Any agent implementing this group is expected to provide preinstalled entries in the vacm tables as follows:

In the usmUserTable: This entry allows access to the system and dhKickstart groups

```
usmUserEngineID         localEngineID
usmUserName             'dhKickstart'
usmUserSecurityName     'dhKickstart'
usmUserCloneFrom        ZeroDotZero
usmUserAuthProtocol     none
usmUserAuthKeyChange    ''
usmUserOwnAuthKeyChange ''
usmUserPrivProtocol
none
usmUserPrivKeyChange    ''
usmUserOwnPrivKeyChange ''
usmUserPublic           ''
usmUserStorageType      permanent
usmUserStatus           active
```

In the vacmSecurityToGroupTable: This maps the initial user into the accessible objects.

```
vacmSecurityModel               3 (USM)
vacmSecurityName                'dhKickstart'
vacmGroupName                   'dhKickstart'
vacmSecurityToGroupStorageType  permanent
vacmSecurityToGroupStatus       active
```

In the vacmAccessTable: Group name to view name translation.

```
vacmGroupName                   'dhKickstart'
vacmAccessContextPrefix         ''
vacmAccessSecurityModel         3 (USM)
vacmAccessSecurityLevel         noAuthNoPriv
vacmAccessContextMatch          exact
vacmAccessReadViewName          'dhKickRestricted'
vacmAccessWriteViewName         ''
vacmAccessNotifyViewName
'dhKickRestricted'
vacmAccessStorageType           permanent
vacmAccessStatus                active
```

In the vacmViewTreeFamilyTable: Two entries to allow the initial entry to access the system and kickstart groups.

```
      vacmViewTreeFamilyViewName      'dhKickRestricted'
      vacmViewTreeFamilySubtree       1.3.6.1.2.1.1  (system)
      vacmViewTreeFamilyMask          ''
      vacmViewTreeFamilyType          1
      vacmViewTreeFamilyStorageType   permanent
      vacmViewTreeFamilyStatus        active

      vacmViewTreeFamilyViewName      'dhKickRestricted'
      vacmViewTreeFamilySubtree       (usmDHKickstartTable OID)
      vacmViewTreeFamilyMask          ''
      vacmViewTreeFamilyType          1
      vacmViewTreeFamilyStorageType   permanent
      vacmViewTreeFamilyStatus        active
      ''

      OBJECT usmDHParameters
      MIN-ACCESS      read-only
      DESCRIPTION
         "It
 is compliant to implement this object as read-only for
      any device."

   ::= { usmDHKeyMIBCompliances 1 }

-- Units of Compliance

usmDHKeyMIBBasicGroup OBJECT-GROUP
   OBJECTS     {
                usmDHUserAuthKeyChange,
                usmDHUserOwnAuthKeyChange,
                usmDHUserPrivKeyChange,
                usmDHUserOwnPrivKeyChange
               }
   STATUS      current
   DESCRIPTION
      ""
   ::= { usmDHKeyMIBGroups 1 }

usmDHKeyParamGroup OBJECT-GROUP
   OBJECTS     {
                usmDHParameters
               }
   STATUS      current
   DESCRIPTION
      "The mandatory object for all MIBs which use the DHKeyChange
   textual convention."
   ::= { usmDHKeyMIBGroups 2 }
```

```
usmDHKeyKickstartGroup OBJECT-GROUP
  OBJECTS     {
                usmDHKickstartMyPublic,
                usmDHKickstartMgrPublic,
                usmDHKickstartSecurityName
              }
  STATUS      current
  DESCRIPTION
      "The objects used
 for kickstarting one or more SNMPv3 USM
  associations via a configuration file or other out of band,
  non-confidential access."
  ::= { usmDHKeyMIBGroups 3 }


END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-USM-DH-OBJECTS-MIB
No license file was found, but licenses were detected in source scan.

```
DOT3-OAM-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32, Unsigned32,
    Integer32, NOTIFICATION-TYPE
    FROM SNMPv2-SMI
    -- from [RFC2578]
  TEXTUAL-CONVENTION, MacAddress, TimeStamp, TruthValue

    FROM SNMPv2-TC
    -- from [RFC2579]
  CounterBasedGauge64
    FROM HCNUM-TC
    -- from [RFC2856]
  ifIndex
    FROM IF-MIB
    -- from [RFC2863]
  MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
    FROM SNMPv2-CONF;



    -- from [RFC2580]

  dot3OamMIB MODULE-IDENTITY
    LAST-UPDATED "200706140000Z"  -- June 14,2007"
```

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"
DESCRIPTION
"The MIB module for managing the new Ethernet OAM features
introduced by the Ethernet in the First Mile taskforce (IEEE
802.3ah). The functionality presented here is based on IEEE
802.3ah [802.3ah], released in October, 2004. [802.3ah] was
prepared as an addendum to the standing version of IEEE 802.3
[802.3-2002]. Since then, [802.3ah] has been
merged into the base IEEE 802.3 specification in [802.3-2005].

In particular, this MIB focuses on the new OAM functions
introduced in Clause 57 of [802.3ah]. The OAM functionality
of Clause 57 is controlled by new management attributes
introduced in Clause 30 of [802.3ah]. The OAM functions are
not specific to any particular Ethernet
physical layer, and
can be generically applied to any Ethernet interface of
[802.3-2002].

An Ethernet OAM protocol data unit is a valid Ethernet frame
with a destination MAC address equal to the reserved MAC
address for Slow Protocols (See 43B of [802.3ah]), a
lengthOrType field equal to the reserved type for Slow
Protocols, and a Slow Protocols subtype equal to that of the
subtype reserved for Ethernet OAM. OAMPDU is used throughout
this document as an abbreviation for Ethernet OAM protocol
data unit.

The following reference is used throughout this MIB module:

[802.3ah] refers to:
IEEE Std 802.3ah-2004: 'Draft amendment to -
Information technology - Telecommunications and
information exchange between systems - Local and
metropolitan area networks - Specific requirements - Part
3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications
- Media Access Control Parameters, Physical Layers and
Management Parameters for subscriber access networks',
October 2004.

[802.3-2002] refers to:
IEEE Std 802.3-2002:
'Information technology - Telecommunications and
information exchange between systems - Local and
metropolitan area networks - Specific requirements - Part
3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications
- Media Access Control Parameters, Physical Layers and
Management Parameters for subscriber access networks',
March 2002.

[802.3-2005] refers to:
IEEE Std 802.3-2005:
'Information technology - Telecommunications and
information exchange between systems - Local and
metropolitan area networks
- Specific requirements - Part
3: Carrier sense multiple access with collision detection
(CSMA/CD) access method and physical layer specifications
- Media Access Control Parameters, Physical Layers and
Management Parameters for subscriber access networks',
December 2005.

[802-2001] refers to:
'IEEE Standard for LAN/MAN (Local Area
Network/Metropolitan Area Network): Overview and
Architecture', IEEE 802, June 2001.

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this MIB module is part of RFC 4878; See the RFC itself for
full legal notices. "

REVISION "200706140000Z" -- June 14, 2007"
DESCRIPTION "Initial version, published as RFC 4878."
::= { mib-2 158 }

--

```
-- Sections of the Ethernet OAM MIB



--
   dot3OamNotifications OBJECT IDENTIFIER ::= { dot3OamMIB 0 }
   dot3OamObjects       OBJECT IDENTIFIER ::= { dot3OamMIB 1 }

  dot3OamConformance   OBJECT IDENTIFIER ::= { dot3OamMIB 2 }

--
-- Textual conventions for the OAM MIB
--
EightOTwoOui ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
    "24-bit Organizationally Unique Identifier.  Information on
    OUIs can be found in IEEE 802-2001 [802-2001], Clause 9."
  SYNTAX       OCTET STRING(SIZE(3))

-- ****************************************************************
--
-- Ethernet OAM Control group
--

dot3OamTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF Dot3OamEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains the primary controls and status for the
    OAM capabilities of an Ethernet-like interface.  There will be
    one row in this table for each Ethernet-like interface in the
    system that supports the OAM functions defined in [802.3ah].
    "
  ::= { dot3OamObjects 1 }

dot3OamEntry OBJECT-TYPE
  SYNTAX     Dot3OamEntry
   MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "An entry in the table that contains information on the
    Ethernet OAM function for a single Ethernet like interface.
    Entries in the table are created automatically for each
    interface supporting Ethernet OAM.  The status of the row
    entry can be determined from dot3OamOperStatus.
```

```
    A dot3OamEntry is indexed in the dot3OamTable by the ifIndex
    object of the Interfaces MIB.
    "
  INDEX       { ifIndex }
  ::= { dot3OamTable 1 }



Dot3OamEntry ::=
  SEQUENCE {
    dot3OamAdminState               INTEGER,
    dot3OamOperStatus               INTEGER,
    dot3OamMode                     INTEGER,
    dot3OamMaxOamPduSize            Unsigned32,
    dot3OamConfigRevision           Unsigned32,
    dot3OamFunctionsSupported       BITS
  }

dot3OamAdminState OBJECT-TYPE
  SYNTAX      INTEGER {
                enabled(1),
                 disabled(2)
               }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "This object is used to provision the default administrative
    OAM mode for this interface.  This object represents the
    desired state of OAM for this interface.

    The dot3OamAdminState always starts in the disabled(2) state
    until an explicit management action or configuration
    information retained by the system causes a transition to the
    enabled(1) state.  When enabled(1), Ethernet OAM will attempt
    to operate over this interface.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.2"
  ::= { dot3OamEntry 1 }

dot3OamOperStatus OBJECT-TYPE
  SYNTAX      INTEGER {
                disabled(1),
                linkFault(2),
                passiveWait(3),
                activeSendLocal(4),
                sendLocalAndRemote(5),
                sendLocalAndRemoteOk(6),
                oamPeeringLocallyRejected(7),
```

```
            oamPeeringRemotelyRejected(8),
            operational(9),
            nonOperHalfDuplex(10)
          }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "At initialization and failure conditions, two OAM entities on
    the same full-duplex Ethernet link begin a discovery phase to
    determine what OAM capabilities may be used on that link.  The
    progress of this initialization is controlled by the OA
    sublayer.

    This value is always disabled(1) if OAM is disabled on this
    interface via the dot3OamAdminState.

    If the link has detected a fault and is transmitting OAMPDUs
    with a link fault indication, the value is linkFault(2).
    Also, if the interface is not operational (ifOperStatus is
    not up(1)), linkFault(2) is returned.  Note that the object
    ifOperStatus may not be up(1) as a result of link failure or
    administrative
action (ifAdminState being down(2) or
    testing(3)).

    The passiveWait(3) state is returned only by OAM entities in
    passive mode (dot3OamMode) and reflects the state in which the
    OAM entity is waiting to see if the peer device is OA
    capable.  The activeSendLocal(4) value is used by active mode
    devices (dot3OamMode) and reflects the OAM entity actively
    trying to discover whether the peer has OAM capability but has
    not yet made that determination.

    The state sendLocalAndRemote(5) reflects that the local OA
    entity has discovered the peer but has not yet accepted or
    rejected the configuration of the peer.  The local device can,
    for whatever reason, decide that the peer device is
    unacceptable and decline OAM peering.  If the local OAM entity
    rejects the peer OAM entity, the state becomes
    oamPeeringLocallyRejected(7).  If the OAM peering is allowed
    by the local device, the state moves
to
    sendLocalAndRemoteOk(6).  Note that both the
    sendLocalAndRemote(5) and oamPeeringLocallyRejected(7) states
    fall within the state SEND_LOCAL_REMOTE of the Discovery state
```

diagram [802.3ah, Figure 57-5], with the difference being
whether the local OAM client has actively rejected the peering
or has just not indicated any decision yet. Whether a peering
decision has been made is indicated via the local flags field
in the OAMPDU (reflected in the aOAMLocalFlagsField of
30.3.6.1.10).

If the remote OAM entity rejects the peering, the state
becomes oamPeeringRemotelyRejected(8). Note that both the
sendLocalAndRemoteOk(6) and oamPeeringRemotelyRejected(8)
states fall within the state SEND_LOCAL_REMOTE_OK of the
Discovery state diagram [802.3ah, Figure 57-5], with the
difference being whether the remote OAM client has rejected

the peering or has just not yet decided. This
is indicated
via the remote flags field in the OAMPDU (reflected in the
aOAMRemoteFlagsField of 30.3.6.1.11).

When the local OAM entity learns that both it and the remote
OAM entity have accepted the peering, the state moves to
operational(9) corresponding to the SEND_ANY state of the
Discovery state diagram [802.3ah, Figure 57-5].

Since Ethernet OAM functions are not designed to work
completely over half-duplex interfaces, the value
nonOperHalfDuplex(10) is returned whenever Ethernet OAM is
enabled (dot3OamAdminState is enabled(1)), but the interface
is in half-duplex operation.
"
REFERENCE "[802.3ah], 30.3.6.1.4, 30.3.6.1.10, 30.3.6.1.11"
::= { dot3OamEntry 2 }

dot3OamMode OBJECT-TYPE
SYNTAX INTEGER {
passive(1),
active(2)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object configures
the mode of OAM operation for this
Ethernet-like interface. OAM on Ethernet interfaces may be in
'active' mode or 'passive' mode. These two modes differ in
that active mode provides additional capabilities to initiate

monitoring activities with the remote OAM peer entity, while
passive mode generally waits for the peer to initiate OA
actions with it. As an example, an active OAM entity can put
the remote OAM entity in a loopback state, where a passive OA
entity cannot.

The default value of dot3OamMode is dependent on the type of
system on which this Ethernet-like interface resides. The
default value should be 'active(2)' unless it is known that
this system should take on a subservient role to the other
device connected over this interface.

Changing this value results in incrementing the configuration
revision field of locally generated OAMPDUs (30.3.6.1.12) and
potentially
re-doing the OAM discovery process if the
dot3OamOperStatus was already operational(9).
"
REFERENCE "[802.3ah], 30.3.6.1.3"

::= { dot3OamEntry 3 }

dot3OamMaxOamPduSize OBJECT-TYPE
SYNTAX Unsigned32 (64..1518)
UNITS "octets"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The largest OAMPDU that the OAM entity supports. OA
entities exchange maximum OAMPDU sizes and negotiate to use
the smaller of the two maximum OAMPDU sizes between the peers.
This value is determined by the local implementation.
"
REFERENCE "[802.3ah], 30.3.6.1.8"
::= { dot3OamEntry 4 }

dot3OamConfigRevision OBJECT-TYPE
SYNTAX Unsigned32(0..65535)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The configuration revision of the OAM entity as reflected in
the latest OAMPDU sent by the OAM entity. The config revision
is used by OAM entities
to indicate that configuration changes
have occurred, which might require the peer OAM entity to

```
    re-evaluate whether OAM peering is allowed.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.12"
  ::= { dot3OamEntry 5 }

 dot3OamFunctionsSupported OBJECT-TYPE
  SYNTAX      BITS {
                unidirectionalSupport (0),
                loopbackSupport(1),
                eventSupport(2),
                variableSupport(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The OAM functions supported on this Ethernet-like interface.
    OAM consists of separate functional sets beyond the basic
    discovery process that is always required.  These functional
    groups can be supported independently by any implementation.
    These values are communicated to the peer via the local
    configuration field of Information OAMPDUs.

    Setting 'unidirectionalSupport(0)' indicates that the
OA



    entity supports the transmission of OAMPDUs on links that are
    operating in unidirectional mode (traffic flowing in one
    direction only).  Setting 'loopbackSupport(1)' indicates that
    the OAM entity can initiate and respond to loopback commands.
    Setting 'eventSupport(2)' indicates that the OAM entity can
    send and receive Event Notification OAMPDUs.  Setting
    'variableSupport(3)' indicates that the OAM entity can send
    and receive Variable Request and Response OAMPDUs.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.6"
  ::= { dot3OamEntry 6 }

 -- ****************************************************************
 --
 -- Ethernet OAM Peer group
 --

 dot3OamPeerTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF Dot3OamPeerEntry
  MAX-ACCESS  not-accessible
  STATUS      current
```

```
  DESCRIPTION
    "This table contains information about the OAM peer for a
    particular Ethernet-like interface.  OAM entities communicate
     with a single OAM peer entity on Ethernet links on which OA
    is enabled and operating properly.  There is one entry in this
    table for each entry in the dot3OamTable for which information
    on the peer OAM entity is available.
    "
  ::= { dot3OamObjects 2 }

dot3OamPeerEntry OBJECT-TYPE
  SYNTAX      Dot3OamPeerEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the table containing information on the peer OA
    entity for a single Ethernet-like interface.

    Note that there is at most one OAM peer for each Ethernet-like
    interface.  Entries are automatically created when information
    about the OAM peer entity becomes available, and automatically
    deleted when the OAM peer entity is no longer in
    communication.  Peer information is not available when
    dot3OamOperStatus is disabled(1), linkFault(2),
    passiveWait(3), activeSendLocal(4), or nonOperHalfDuplex(10).
     "
  INDEX       { ifIndex }



  ::= { dot3OamPeerTable 1 }

Dot3OamPeerEntry ::=
  SEQUENCE {
    dot3OamPeerMacAddress             MacAddress,
    dot3OamPeerVendorOui              EightOTwoOui,
    dot3OamPeerVendorInfo             Unsigned32,
    dot3OamPeerMode                   INTEGER,
    dot3OamPeerMaxOamPduSize          Unsigned32,
    dot3OamPeerConfigRevision         Unsigned32,
    dot3OamPeerFunctionsSupported     BITS
  }

dot3OamPeerMacAddress OBJECT-TYPE
  SYNTAX      MacAddress
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

```
    "The MAC address of the peer OAM entity.  The MAC address is
    derived from the most recently received OAMPDU.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.5."
  ::= { dot3OamPeerEntry 1 }

 dot3OamPeerVendorOui OBJECT-TYPE
  SYNTAX      EightOTwoOui
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The
OUI of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.  The
    OUI can be used to identify the vendor of the remote OA
    entity.  This value is initialized to three octets of zero
    before any Local Information TLV is received.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.16."
  ::= { dot3OamPeerEntry 2 }

 dot3OamPeerVendorInfo OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The Vendor Info of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.
    The semantics of the Vendor Information field is proprietary
    and specific to the vendor (identified by the
    dot3OamPeerVendorOui).  This information could, for example,



    be used to identify a specific product or product family.
    This value is initialized to zero before any Local
    Information TLV is received.
     "
  REFERENCE   "[802.3ah], 30.3.6.1.17."
  ::= { dot3OamPeerEntry 3 }

 dot3OamPeerMode OBJECT-TYPE
  SYNTAX      INTEGER {
                passive(1),
                active(2),
                unknown(3)
              }
  MAX-ACCESS  read-only
```

```
  STATUS      current
  DESCRIPTION
    "The mode of the OAM peer as reflected in the latest
    Information OAMPDU received with a Local Information TLV.  The
    mode of the peer can be determined from the Configuration
    field in the Local Information TLV of the last Information
    OAMPDU received from the peer.  The value is unknown(3)
    whenever no Local Information TLV has been received.  The
    values of active(2) and passive(1) are returned when a Local
    Information TLV has been received indicating that the peer is
    in active or passive mode, respectively.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.7."
  ::= { dot3OamPeerEntry 4 }

 dot3OamPeerMaxOamPduSize
OBJECT-TYPE
  SYNTAX      Unsigned32 (0 | 64..1518)
  UNITS       "octets"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The maximum size of OAMPDU supported by the peer as reflected
    in the latest Information OAMPDU received with a Local
    Information TLV.  Ethernet OAM on this interface must not use
    OAMPDUs that exceed this size.  The maximum OAMPDU size can be
    determined from the PDU Configuration field of the Local
    Information TLV of the last Information OAMPDU received from
    the peer.  A value of zero is returned if no Local Information
    TLV has been received.  Otherwise, the value of the OAM peer's
    maximum OAMPDU size is returned in this value.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.9."
  ::= { dot3OamPeerEntry 5 }




 dot3OamPeerConfigRevision OBJECT-TYPE
  SYNTAX      Unsigned32(0..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The
configuration revision of the OAM peer as reflected in
    the latest OAMPDU.  This attribute is changed by the peer
    whenever it has a local configuration change for Ethernet OA
    on this interface.  The configuration revision can be
```

```
    determined from the Revision field of the Local Information
    TLV of the most recently received Information OAMPDU with
    a Local Information TLV.  A value of zero is returned if
    no Local Information TLV has been received.
   "
  REFERENCE   "[802.3ah], 30.3.6.1.13."
  ::= { dot3OamPeerEntry 6 }

 dot3OamPeerFunctionsSupported OBJECT-TYPE
  SYNTAX      BITS {
                unidirectionalSupport (0),
                loopbackSupport(1),
                eventSupport(2),
                variableSupport(3)
              }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The OAM functions supported on this Ethernet-like interface.
    OAM consists of separate functionality
sets above the basic
    discovery process.  This value indicates the capabilities of
    the peer OAM entity with respect to these functions.  This
    value is initialized so all bits are clear.

    If unidirectionalSupport(0) is set, then the peer OAM entity
    supports sending OAM frames on Ethernet interfaces when the
    receive path is known to be inoperable.  If
    loopbackSupport(1) is set, then the peer OAM entity can send
    and receive OAM loopback commands.  If eventSupport(2) is set,
    then the peer OAM entity can send and receive event OAMPDUs to
    signal various error conditions.  If variableSupport(3) is
    set, then the peer OAM entity can send and receive variable
    requests to monitor the attribute value as described in Clause
    57 of [802.3ah].

    The capabilities of the OAM peer can be determined from the
    configuration field of the Local Information TLV of the most
    recently received
Information OAMPDU with a Local Information
    TLV.  All zeros are returned if no Local Information TLV has




    yet been received.
    "
  REFERENCE   "[802.3ah], REFERENCE 30.3.6.1.7."
  ::= { dot3OamPeerEntry 7 }
```

```
-- ****************************************************************
--
-- Ethernet OAM Loopback group
--

dot3OamLoopbackTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF Dot3OamLoopbackEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains controls for the loopback state of the
    local link as well as indicates the status of the loopback
    function.  There is one entry in this table for each entry in
    dot3OamTable that supports loopback functionality (where
    dot3OamFunctionsSupported includes the loopbackSupport bit
    set).

    Loopback can be used to place the remote OAM entity in a state
    where every received frame (except OAMPDUs) is echoed back

  over the same interface on which they were received.  In this
    state, at the remote entity, 'normal' traffic is disabled as
    only the looped back frames are transmitted on the interface.
    Loopback is thus an intrusive operation that prohibits normal
    data flow and should be used accordingly.
    "
  ::= { dot3OamObjects 3 }

dot3OamLoopbackEntry OBJECT-TYPE
  SYNTAX      Dot3OamLoopbackEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the table, containing information on the loopback
    status for a single Ethernet-like interface.  Entries in the
    table are automatically created whenever the local OAM entity
    supports loopback capabilities.  The loopback status on the
    interface can be determined from the dot3OamLoopbackStatus
    object.
    "
  INDEX       { ifIndex }
  ::= { dot3OamLoopbackTable 1 }

Dot3OamLoopbackEntry ::=
```

```
  SEQUENCE {
    dot3OamLoopbackStatus
          INTEGER,
    dot3OamLoopbackIgnoreRx          INTEGER
  }

 dot3OamLoopbackStatus OBJECT-TYPE
  SYNTAX      INTEGER {
                -- all values, except where noted, can be read
                -- but cannot be written
                noLoopback (1),

                -- initiatingLoopback can be read or written
                initiatingLoopback (2),
                remoteLoopback (3),

                -- terminatingLoopback can be read or written
                terminatingLoopback (4),
                localLoopback (5),
                unknown (6)
              }
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The loopback status of the OAM entity.  This status is
    determined by a combination of the local parser and
    multiplexer states, the remote parser and multiplexer states,
    as well as by the actions of the local OAM client.  When
    operating in normal mode
with no loopback in progress, the
    status reads noLoopback(1).

    The values initiatingLoopback(2) and terminatingLoopback(4)
    can be read or written.  The other values can only be read -
    they can never be written.  Writing initiatingLoopback causes
    the local OAM entity to start the loopback process with its
    peer.  This value can only be written when the status is
    noLoopback(1).  Writing the value initiatingLoopback(2) in any
    other state has no effect.  When in remoteLoopback(3), writing
    terminatingLoopback(4) causes the local OAM entity to initiate
    the termination of the loopback state.  Writing
    terminatingLoopack(4) in any other state has no effect.

    If the OAM client initiates a loopback and has sent a
    Loopback OAMPDU and is waiting for a response, where the local
    parser and multiplexer states are DISCARD (see [802.3ah,
    57.2.11.1]), the status is 'initiatingLoopback'.  In this
```

case, the local OAM entity has yet to receive any
acknowledgment that the remote OAM entity has received its
loopback command request.

If the local OAM client knows that the remote OAM entity is in
loopback mode (via the remote state information as described
in [802.3ah, 57.2.11.1, 30.3.6.1.15]), the status is
remoteLoopback(3). If the local OAM client is in the process
of terminating the remote loopback [802.3ah, 57.2.11.3,
30.3.6.1.14] with its local multiplexer and parser states in
DISCARD, the status is terminatingLoopback(4). If the remote
OAM client has put the local OAM entity in loopback mode as
indicated by its local parser state, the status is
localLoopback(5).

The unknown(6) status indicates that the parser and
multiplexer combination is unexpected. This status may be
returned if the OAM loopback is in a transition state but
should not persist.

The values of this attribute correspond to the following
values of the local and remote parser and multiplexer states.

value LclPrsr LclMux RmtPrsr RmtMux
noLoopback FWD FWD FWD FWD
initLoopback DISCARD DISCARD FWD FWD
rmtLoopback DISCARD FWD LPBK DISCARD
tmtngLoopback DISCARD DISCARD LPBK DISCARD
lclLoopback LPBK DISCARD DISCARD FWD
unknown *** any other combination ***
"
REFERENCE "[802.3ah], REFERENCE 57.2.11, 30.3.61.14,
30.3.6.1.15"
::= { dot3OamLoopbackEntry 1 }

dot3OamLoopbackIgnoreRx OBJECT-TYPE
SYNTAX INTEGER { ignore(1), process(2) }
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"Since OAM loopback is a disruptive operation (user traffic
does not pass), this attribute provides a mechanism to provide
controls

```
over whether received OAM loopback commands are
    processed or ignored.  When the value is ignore(1), received
    loopback commands are ignored.  When the value is process(2),
    OAM loopback commands are processed.  The default value is to
    ignore loopback commands (ignore(1)).
    "
  REFERENCE   "[802.3ah], REFERENCE 57.2.11, 30.3.61.14,
    30.3.6.1.15"
  ::= { dot3OamLoopbackEntry 2 }



-- ****************************************************************
--
-- Ethernet OAM Statistics group
--

 dot3OamStatsTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF Dot3OamStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "This table contains statistics for the OAM function on a
    particular Ethernet-like interface.  There is an entry in the
    table for every entry in the dot3OamTable.

    The counters in this table are defined as 32-bit entries to
    match the counter size as defined in [802.3ah].
 Given that
    the OA protocol is a slow protocol, the counters increment at
    a slow rate.
    "
  ::= { dot3OamObjects 4 }

 dot3OamStatsEntry OBJECT-TYPE
  SYNTAX      Dot3OamStatsEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the table containing statistics information on
    the Ethernet OAM function for a single Ethernet-like
    interface.  Entries are automatically created for every entry
    in the dot3OamTable.  Counters are maintained across
    transitions in dot3OamOperStatus.
    "
  INDEX       { ifIndex }
  ::= { dot3OamStatsTable 1 }
```

```
Dot3OamStatsEntry ::=
  SEQUENCE {
        dot3OamInformationTx              Counter32,
        dot3OamInformationRx              Counter32,
        dot3OamUniqueEventNotificationTx    Counter32,
        dot3OamUniqueEventNotificationRx    Counter32,
        dot3OamDuplicateEventNotificationTx
Counter32,
        dot3OamDuplicateEventNotificationRx Counter32,
        dot3OamLoopbackControlTx          Counter32,
        dot3OamLoopbackControlRx          Counter32,
        dot3OamVariableRequestTx          Counter32,
        dot3OamVariableRequestRx          Counter32,
        dot3OamVariableResponseTx         Counter32,



        dot3OamVariableResponseRx         Counter32,
        dot3OamOrgSpecificTx              Counter32,
        dot3OamOrgSpecificRx              Counter32,
        dot3OamUnsupportedCodesTx         Counter32,
        dot3OamUnsupportedCodesRx         Counter32,
        dot3OamFramesLostDueToOam          Counter32
       }

dot3OamInformationTx OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "frames"
  MAX-ACCESS  read-only
  STATUS     current
  DESCRIPTION
    "A count of the number of Information OAMPDUs transmitted on
     this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.  "
  REFERENCE   "[802.3ah], 30.3.6.1.20."
  ::= { dot3OamStatsEntry 1 }

dot3OamInformationRx OBJECT-TYPE
  SYNTAX     Counter32
  UNITS      "frames"
  MAX-ACCESS  read-only
  STATUS     current
  DESCRIPTION
    "A count of the number of Information OAMPDUs received on this
    interface.
```

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.21."
::= { dot3OamStatsEntry 2 }

dot3OamUniqueEventNotificationTx OBJECT-TYPE
SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A count
of the number of unique Event OAMPDUs transmitted on
this interface. Event Notifications may be sent in duplicate
to increase the probability of successfully being received,

given the possibility that a frame may be lost in transit.
Duplicate Event Notification transmissions are counted by
dot3OamDuplicateEventNotificationTx.

A unique Event Notification OAMPDU is indicated as an Event
Notification OAMPDU with a Sequence Number field that is
distinct from the previously transmitted Event Notification
OAMPDU Sequence Number.

Discontinuities of this counter can occur at re-initialization
of the management system, and at other times as indicated by
the value of the ifCounterDiscontinuityTime.
"
REFERENCE "[802.3ah], 30.3.6.1.22."
::= { dot3OamStatsEntry 3 }

dot3OamUniqueEventNotificationRx OBJECT-TYPE
SYNTAX Counter32
UNITS "frames"
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"A count of the number of unique Event OAMPDUs received on
this interface. Event Notification OAMPDUs may be sent in
duplicate to increase the probability of successfully being
received, given the possibility that a frame may be lost in
transit. Duplicate Event Notification receptions are counted

```
    by dot3OamDuplicateEventNotificationRx.

    A unique Event Notification OAMPDU is indicated as an Event
    Notification OAMPDU with a Sequence Number field that is
    distinct from the previously received Event Notification
    OAMPDU Sequence Number.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.24."
  ::= { dot3OamStatsEntry 4 }

dot3OamDuplicateEventNotificationTx OBJECT-TYPE
  SYNTAX
  Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of duplicate Event OAMPDUs transmitted



    on this interface.  Event Notification OAMPDUs may be sent in
    duplicate to increase the probability of successfully being
    received, given the possibility that a frame may be lost in
    transit.

    A duplicate Event Notification OAMPDU is indicated as an Event
    Notification OAMPDU with a Sequence Number field that is
    identical to the previously transmitted Event Notification
    OAMPDU Sequence Number.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.23."
  ::= { dot3OamStatsEntry 5 }

dot3OamDuplicateEventNotificationRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS
  "frames"
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
    "A count of the number of duplicate Event OAMPDUs received on
    this interface.  Event Notification OAMPDUs may be sent in
    duplicate to increase the probability of successfully being
    received, given the possibility that a frame may be lost in
    transit.

    A duplicate Event Notification OAMPDU is indicated as an Event
    Notification OAMPDU with a Sequence Number field that is
    identical to the previously received Event Notification OAMPDU
    Sequence Number.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.25."
  ::= { dot3OamStatsEntry 6 }

dot3OamLoopbackControlTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS
    current
  DESCRIPTION
    "A count of the number of Loopback Control OAMPDUs transmitted




    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.26."
  ::= { dot3OamStatsEntry 7 }

dot3OamLoopbackControlRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Loopback Control OAMPDUs received
    on this interface.
```

```
    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.27."
  ::= { dot3OamStatsEntry 8 }

dot3OamVariableRequestTx OBJECT-TYPE
  SYNTAX      Counter32
   UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Request OAMPDUs transmitted
    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.28."
  ::= { dot3OamStatsEntry 9 }

dot3OamVariableRequestRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Request OAMPDUs received on



    this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.29."
  ::= { dot3OamStatsEntry
10 }

dot3OamVariableResponseTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
    "A count of the number of Variable Response OAMPDUs
    transmitted on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.30."
  ::= { dot3OamStatsEntry 11 }

dot3OamVariableResponseRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Variable Response OAMPDUs received
    on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
     "
  REFERENCE   "[802.3ah], 30.3.6.1.31."
  ::= { dot3OamStatsEntry 12 }

 dot3OamOrgSpecificTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Organization Specific OAMPDUs




    transmitted on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.32."
  ::= { dot3OamStatsEntry 13 }

dot3OamOrgSpecificRx OBJECT-TYPE
  SYNTAX      Counter32
```

```
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of Organization Specific OAMPDUs
    received on this interface.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other
times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.33."
  ::= { dot3OamStatsEntry 14 }

 dot3OamUnsupportedCodesTx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of OAMPDUs transmitted on this
    interface with an unsupported op-code.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.18."
  ::= { dot3OamStatsEntry 15 }

 dot3OamUnsupportedCodesRx OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of OAMPDUs received on this interface




    with an unsupported op-code.

    Discontinuities
of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
```

```
  REFERENCE   "[802.3ah], 30.3.6.1.19."
  ::= { dot3OamStatsEntry 16 }

 dot3OamFramesLostDueToOam OBJECT-TYPE
  SYNTAX      Counter32
  UNITS       "frames"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "A count of the number of frames that were dropped by the OA
    multiplexer.  Since the OAM multiplexer has multiple inputs
    and a single output, there may be cases where frames are
    dropped due to transmit resource contention.  This counter is
    incremented whenever a frame is dropped by the OAM layer.
    Note that any Ethernet frame, not just OAMPDUs, may be dropped
    by the OAM layer.  This can occur when an OAMPDU takes
    precedence over a 'normal' frame resulting in the 'normal'
    frame being dropped.

    When this counter
is incremented, no other counters in this
    MIB are incremented.

    Discontinuities of this counter can occur at re-initialization
    of the management system, and at other times as indicated by
    the value of the ifCounterDiscontinuityTime.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.46."
  ::= { dot3OamStatsEntry 17 }

 -- ****************************************************************
 --
 -- Ethernet OAM Event Configuration group
 --

 dot3OamEventConfigTable OBJECT-TYPE
  SYNTAX     SEQUENCE OF Dot3OamEventConfigEntry
  MAX-ACCESS not-accessible
  STATUS     current
  DESCRIPTION
    "Ethernet OAM includes the ability to generate and receive
    Event Notification OAMPDUs to indicate various link problems.
    This table contains the mechanisms to enable Event



    Notifications and configure the thresholds to generate the
    standard Ethernet OAM events.  There is one entry in the table
```

for every entry in
dot3OamTable that supports OAM events
(where dot3OamFunctionsSupported includes the eventSupport
bit set). The values in the table are maintained across
changes to dot3OamOperStatus.

The standard threshold crossing events are:
- Errored Symbol Period Event. Generated when the number of
symbol errors exceeds a threshold within a given window
defined by a number of symbols (for example, 1,000 symbols
out of 1,000,000 had errors).
- Errored Frame Period Event. Generated when the number of
frame errors exceeds a threshold within a given window
defined by a number of frames (for example, 10 frames out
of 1000 had errors).
- Errored Frame Event. Generated when the number of frame
errors exceeds a threshold within a given window defined
by a period of time (for example, 10 frames in 1 second
had errors).
- Errored Frame Seconds
Summary Event. Generated when the
number of errored frame seconds exceeds a threshold within
a given time period (for example, 10 errored frame seconds
within the last 100 seconds). An errored frame second is
defined as a 1 second interval which had >0 frame errors.
There are other events (dying gasp, critical events) that are
not threshold crossing events but which can be
enabled/disabled via this table.
"
::= { dot3OamObjects 5 }

dot3OamEventConfigEntry OBJECT-TYPE
SYNTAX Dot3OamEventConfigEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
"Entries are automatically created and deleted from this
table, and exist whenever the OAM entity supports Ethernet OA
events (as indicated by the eventSupport bit in
dot3OamFunctionsSuppported). Values in the table are
maintained across changes to the value of dot3OamOperStatus.

Event
configuration controls when the local management entity
sends Event Notification OAMPDUs to its OAM peer, and when
certain event flags are set or cleared in OAMPDUs.
"
INDEX { ifIndex }

::= { dot3OamEventConfigTable 1 }

```
Dot3OamEventConfigEntry ::=
  SEQUENCE {
        dot3OamErrSymPeriodWindowHi       Unsigned32,
        dot3OamErrSymPeriodWindowLo       Unsigned32,
        dot3OamErrSymPeriodThresholdHi    Unsigned32,
        dot3OamErrSymPeriodThresholdLo    Unsigned32,
        dot3OamErrSymPeriodEvNotifEnable  TruthValue,
        dot3OamErrFramePeriodWindow       Unsigned32,
        dot3OamErrFramePeriodThreshold    Unsigned32,
        dot3OamErrFramePeriodEvNotifEnable TruthValue,
        dot3OamErrFrameWindow             Unsigned32,
        dot3OamErrFrameThreshold          Unsigned32,
        dot3OamErrFrameEvNotifEnable      TruthValue,

     dot3OamErrFrameSecsSummaryWindow   Integer32,
        dot3OamErrFrameSecsSummaryThreshold Integer32,
        dot3OamErrFrameSecsEvNotifEnable   TruthValue,
        dot3OamDyingGaspEnable             TruthValue,
        dot3OamCriticalEventEnable         TruthValue
       }

dot3OamErrSymPeriodWindowHi OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "2^32 symbols"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodWindowHi and
    dot3OamErrSymPeriodLo together form an unsigned 64-bit
    integer representing the number of symbols over which this
    threshold event is defined.  This is defined as
  dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                            + dot3OamErrSymPeriodWindowLo

    If dot3OamErrSymPeriodThreshold symbol errors occur within a
    window of dot3OamErrSymPeriodWindow symbols, an Event

    Notification OAMPDU should be generated with an Errored Symbol
    Period Event TLV indicating that the threshold has been
    crossed in this window.

    The default value for dot3OamErrSymPeriodWindow is the number
    of symbols in one second for the underlying physical layer.
    "
```

```
  REFERENCE   "[802.3ah], 30.3.6.1.34"
  ::= { dot3OamEventConfigEntry 1 }

 dot3OamErrSymPeriodWindowLo OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "symbols"



  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodWindowHi and
    dot3OamErrSymPeriodWindowLo together form an unsigned 64-bit
    integer representing the number of symbols over which this
    threshold event is defined.  This is defined as

  dot3OamErrSymPeriodWindow = ((2^32)*dot3OamErrSymPeriodWindowHi)
                            + dot3OamErrSymPeriodWindowLo

    If dot3OamErrSymPeriodThreshold symbol errors
occur within a
    window of dot3OamErrSymPeriodWindow symbols, an Event
    Notification OAMPDU should be generated with an Errored Symbol
    Period Event TLV indicating that the threshold has been
    crossed in this window.

    The default value for dot3OamErrSymPeriodWindow is the number
    of symbols in one second for the underlying physical layer.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.34"
  ::= { dot3OamEventConfigEntry 2 }

 dot3OamErrSymPeriodThresholdHi OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "2^32 symbols"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The two objects dot3OamErrSymPeriodThresholdHi and
    dot3OamErrSymPeriodThresholdLo together form an unsigned
    64-bit integer representing the number of symbol errors that
    must occur within a given window to cause this event.

    This is defined as

      dot3OamErrSymPeriodThreshold =
                ((2^32) *
```

dot3OamErrSymPeriodThresholdHi)
+ dot3OamErrSymPeriodThresholdLo

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol errors. If the threshold value is zero, then an Event

Notification OAMPDU is sent periodically (at the end of every window). This can be used as an asynchronous notification to the peer OAM entity of the statistics related to this threshold crossing alarm.
"
REFERENCE "[802.3ah], 30.3.6.1.34"
::= { dot3OamEventConfigEntry 3 }

dot3OamErrSymPeriodThresholdLo OBJECT-TYPE
SYNTAX Unsigned32
UNITS "symbols"
MAX-ACCESS read-write
STATUS
current
DESCRIPTION
"The two objects dot3OamErrSymPeriodThresholdHi and dot3OamErrSymPeriodThresholdLo together form an unsigned 64-bit integer representing the number of symbol errors that must occur within a given window to cause this event.

This is defined as

dot3OamErrSymPeriodThreshold =
((2^32) * dot3OamErrSymPeriodThresholdHi)
+ dot3OamErrSymPeriodThresholdLo

If dot3OamErrSymPeriodThreshold symbol errors occur within a window of dot3OamErrSymPeriodWindow symbols, an Event Notification OAMPDU should be generated with an Errored Symbol Period Event TLV indicating that the threshold has been crossed in this window.

The default value for dot3OamErrSymPeriodThreshold is one symbol error. If the threshold value is zero, then an Event

Notification OAMPDU is sent periodically (at the end of every
window). This
can be used as an asynchronous notification to
the peer OAM entity of the statistics related to this
threshold crossing alarm.
"
REFERENCE "[802.3ah], 30.3.6.1.34"
::= { dot3OamEventConfigEntry 4 }

dot3OamErrSymPeriodEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true, the OAM entity should send an Event Notification
OAMPDU when an Errored Symbol Period Event occurs.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"
::= { dot3OamEventConfigEntry 5 }

dot3OamErrFramePeriodWindow OBJECT-TYPE
SYNTAX Unsigned32
UNITS "frames"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"The
number of frames over which the threshold is defined.
The default value of the window is the number of minimum size
Ethernet frames that can be received over the physical layer
in one second.

If dot3OamErrFramePeriodThreshold frame errors occur within a
window of dot3OamErrFramePeriodWindow frames, an Event
Notification OAMPDU should be generated with an Errored Frame
Period Event TLV indicating that the threshold has been
crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.38"
::= { dot3OamEventConfigEntry 6 }

```
 dot3OamErrFramePeriodThreshold OBJECT-TYPE
   SYNTAX      Unsigned32
   UNITS       "frames"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
     "The number of frame errors that must occur for this event to
     be triggered.  The default value is one frame error.  If the
     threshold value is zero, then an Event Notification OAMPDU is
     sent periodically
(at the end of every window).  This can be
     used as an asynchronous notification to the peer OAM entity of
     the statistics related to this threshold crossing alarm.

     If dot3OamErrFramePeriodThreshold frame errors occur within a
     window of dot3OamErrFramePeriodWindow frames, an Event
     Notification OAMPDU should be generated with an Errored Frame
     Period Event TLV indicating that the threshold has been
     crossed in this window.
     "
   REFERENCE   "[802.3ah], 30.3.6.1.38"



   ::= { dot3OamEventConfigEntry 7 }

 dot3OamErrFramePeriodEvNotifEnable OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
     "If true, the OAM entity should send an Event Notification
     OAMPDU when an Errored Frame Period Event occurs.

     By default, this object should have the value true for
     Ethernet-like interfaces that support OAM.  If the OAM layer
     does not support Event Notifications
(as indicated via the
     dot3OamFunctionsSupported attribute), this value is ignored.
     "
   ::= { dot3OamEventConfigEntry 8 }

 dot3OamErrFrameWindow OBJECT-TYPE
   SYNTAX      Unsigned32
   UNITS       "tenths of a second"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
```

"The amount of time (in 100ms increments) over which the
threshold is defined. The default value is 10 (1 second).

If dot3OamErrFrameThreshold frame errors occur within a window
of dot3OamErrFrameWindow seconds (measured in tenths of
seconds), an Event Notification OAMPDU should be generated
with an Errored Frame Event TLV indicating that the threshold
has been crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.36"
DEFVAL { 10 }
::= { dot3OamEventConfigEntry 9 }

dot3OamErrFrameThreshold OBJECT-TYPE
SYNTAX Unsigned32
UNITS "frames"
MAX-ACCESS read-write

STATUS current
DESCRIPTION
"The number of frame errors that must occur for this event to
be triggered. The default value is one frame error. If the
threshold value is zero, then an Event Notification OAMPDU is
sent periodically (at the end of every window). This can be
used as an asynchronous notification to the peer OAM entity of
the statistics related to this threshold crossing alarm.

If dot3OamErrFrameThreshold frame errors occur within a window
of dot3OamErrFrameWindow (in tenths of seconds), an Event
Notification OAMPDU should be generated with an Errored Frame
Event TLV indicating the threshold has been crossed in this
window.
"
REFERENCE "[802.3ah], 30.3.6.1.36"
DEFVAL { 1 }
::= { dot3OamEventConfigEntry 10 }

dot3OamErrFrameEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true,
the OAM entity should send an Event Notification
OAMPDU when an Errored Frame Event occurs.

```
    By default, this object should have the value true for
    Ethernet-like interfaces that support OAM.  If the OAM layer
    does not support Event Notifications (as indicated via the
    dot3OamFunctionsSupported attribute), this value is ignored.
    "
  DEFVAL { true }
  ::= { dot3OamEventConfigEntry 11 }

 dot3OamErrFrameSecsSummaryWindow OBJECT-TYPE
  SYNTAX      Integer32 (100..9000)
  UNITS       "tenths of a second"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The amount of time (in 100 ms intervals) over which the
    threshold is defined.  The default value is 100 (10 seconds).

    If dot3OamErrFrameSecsSummaryThreshold frame errors occur
    within a window of dot3OamErrFrameSecsSummaryWindow (in tenths
    of seconds), an Event Notification OAMPDU should be generated
    with an Errored Frame
Seconds Summary Event TLV indicating
    that the threshold has been crossed in this window.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.40"
  DEFVAL { 100 }
  ::= { dot3OamEventConfigEntry 12 }

 dot3OamErrFrameSecsSummaryThreshold OBJECT-TYPE
  SYNTAX      Integer32 (1..900)



  UNITS       "errored frame seconds"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "The number of errored frame seconds that must occur for this
    event to be triggered.  The default value is one errored frame
    second.  If the threshold value is zero, then an Event
    Notification OAMPDU is sent periodically (at the end of every
    window).  This can be used as an asynchronous notification to
    the peer OAM entity of the statistics related to this
    threshold crossing alarm.

    If dot3OamErrFrameSecsSummaryThreshold frame errors occur
    within a window of dot3OamErrFrameSecsSummaryWindow (in tenths
```

of seconds),
an Event Notification OAMPDU should be generated
with an Errored Frame Seconds Summary Event TLV indicating
that the threshold has been crossed in this window.
"
REFERENCE "[802.3ah], 30.3.6.1.40"
DEFVAL { 1 }
::= { dot3OamEventConfigEntry 13 }

dot3OamErrFrameSecsEvNotifEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"If true, the local OAM entity should send an Event
Notification OAMPDU when an Errored Frame Seconds Event
occurs.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"
DEFVAL { true }
::= { dot3OamEventConfigEntry 14 }

dot3OamDyingGaspEnable OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-write

STATUS current
DESCRIPTION
"If true, the local OAM entity should attempt to indicate a
dying gasp via the OAMPDU flags field to its peer OAM entity
when a dying gasp event occurs. The exact definition of a
dying gasp event is implementation dependent. If the system

does not support dying gasp capability, setting this object
has no effect, and reading the object should always result in
'false'.

By default, this object should have the value true for
Ethernet-like interfaces that support OAM. If the OAM layer
does not support Event Notifications (as indicated via the
dot3OamFunctionsSupported attribute), this value is ignored.
"

```
  DEFVAL { true }
  ::= { dot3OamEventConfigEntry 15 }

 dot3OamCriticalEventEnable OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
    "If true, the local OAM entity should attempt to indicate
a
    critical event via the OAMPDU flags to its peer OAM entity
    when a critical event occurs.  The exact definition of a
    critical event is implementation dependent.  If the system
    does not support critical event capability, setting this
    object has no effect, and reading the object should always
    result in 'false'.

    By default, this object should have the value true for
    Ethernet-like interfaces that support OAM.  If the OAM layer
    does not support Event Notifications (as indicated via the
    dot3OamFunctionsSupported attribute), this value is ignored.
    "
  DEFVAL { true }
  ::= { dot3OamEventConfigEntry 16 }

 -- ****************************************************************
 --
 -- Ethernet OAM Event Log group
 --

 dot3OamEventLogTable OBJECT-TYPE
  SYNTAX       SEQUENCE OF Dot3OamEventLogEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
    "This table records
a history of the events that have occurred
    at the Ethernet OAM level.  These events can include locally
    detected events, which may result in locally generated
    OAMPDUs, and remotely detected events, which are detected by
    the OAM peer entity and signaled to the local entity via




    Ethernet OAM.  Ethernet OAM events can be signaled by Event
    Notification OAMPDUs or by the flags field in any OAMPDU.

    This table contains both threshold crossing events and
```

```
    non-threshold crossing events.  The parameters for the
    threshold window, threshold value, and actual value
    (dot3OamEventLogWindowXX, dot3OamEventLogThresholdXX,
    dot3OamEventLogValue) are only applicable to threshold
    crossing events, and are returned as all F's (2^32 - 1) for
    non-threshold crossing events.

    Entries in the table are automatically created when such
    events are detected.  The size of the table is implementation
    dependent.
  When the table reaches its maximum size, older
    entries are automatically deleted to make room for newer
    entries.
    "
    ::= { dot3OamObjects 6 }

dot3OamEventLogEntry OBJECT-TYPE
  SYNTAX      Dot3OamEventLogEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An entry in the dot3OamEventLogTable.  Entries are
    automatically created whenever Ethernet OAM events occur at
    the local OAM entity, and when Event Notification OAMPDUs are
    received at the local OAM entity (indicating that events have
    occurred at the peer OAM entity).  The size of the table is
    implementation dependent, but when the table becomes full,
    older events are automatically deleted to make room for newer
    events.  The table index dot3OamEventLogIndex increments for
    each new entry, and when the maximum value is reached, the
    value restarts at zero.
    "
  INDEX       { ifIndex, dot3OamEventLogIndex
}
  ::= { dot3OamEventLogTable 1 }

 Dot3OamEventLogEntry ::=
  SEQUENCE {
    dot3OamEventLogIndex              Unsigned32,
    dot3OamEventLogTimestamp          TimeStamp,
    dot3OamEventLogOui                EightOTwoOui,
    dot3OamEventLogType               Unsigned32,
    dot3OamEventLogLocation           INTEGER,
    dot3OamEventLogWindowHi           Unsigned32,
    dot3OamEventLogWindowLo           Unsigned32,
    dot3OamEventLogThresholdHi        Unsigned32,
```

```
    dot3OamEventLogThresholdLo          Unsigned32,
    dot3OamEventLogValue                CounterBasedGauge64,
    dot3OamEventLogRunningTotal         CounterBasedGauge64,
    dot3OamEventLogEventTotal           Unsigned32
  }

dot3OamEventLogIndex       OBJECT-TYPE
  SYNTAX      Unsigned32(1..4294967295)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
    "An arbitrary integer for identifying individual events
     within the event log.  "
  ::= { dot3OamEventLogEntry 1 }

dot3OamEventLogTimestamp  OBJECT-TYPE
  SYNTAX      TimeStamp
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The value of sysUpTime at the time of the logged event.  For
    locally generated events, the time of the event can be
    accurately retrieved from sysUpTime.  For remotely generated
    events, the time of the event is indicated by the reception of
    the Event Notification OAMPDU indicating that the event
    occurred on the peer.  A system may attempt to adjust the
    timestamp value to more accurately reflect the time of the
    event at the peer OAM entity by using other information, such
    as that found in the timestamp found of the Event Notification
    TLVs, which provides an indication of the relative time
    between events at the peer entity.  "
  ::= { dot3OamEventLogEntry 2 }

dot3OamEventLogOui  OBJECT-TYPE
  SYNTAX
    EightOTwoOui
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The OUI of the entity defining the object type.  All IEEE
    802.3 defined events (as appearing in [802.3ah] except for the
    Organizationally Unique Event TLVs) use the IEEE 802.3 OUI of
    0x0180C2.  Organizations defining their own Event Notification
    TLVs include their OUI in the Event Notification TLV that
    gets reflected here.  "
  ::= { dot3OamEventLogEntry 3 }
```

```
dot3OamEventLogType      OBJECT-TYPE
  SYNTAX      Unsigned32


  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "The type of event that generated this entry in the event log.
    When the OUI is the IEEE 802.3 OUI of 0x0180C2, the following
    event types are defined:
       erroredSymbolEvent(1),
       erroredFramePeriodEvent(2),
       erroredFrameEvent(3),
       erroredFrameSecondsEvent(4),
       linkFault(256),
       dyingGaspEvent(257),
        criticalLinkEvent(258)
    The first four are considered threshold crossing events, as
    they are generated when a metric exceeds a given value within
    a specified window.  The other three are not threshold
    crossing events.

    When the OUI is not 71874 (0x0180C2 in hex), then some other
    organization has defined the event space.  If event subtyping
    is known to the implementation, it may be reflected here.
    Otherwise, this value should return all F's (2^32 - 1).
    "
  REFERENCE   "[802.3ah], 30.3.6.1.10 and 57.5.3."
  ::= { dot3OamEventLogEntry 4 }

dot3OamEventLogLocation OBJECT-TYPE
  SYNTAX      INTEGER { local(1), remote(2) }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "Whether this event occurred locally (local(1)), or was
    received from the OAM peer via Ethernet OAM (remote(2)).
    "
  ::= { dot3OamEventLogEntry 5 }

dot3OamEventLogWindowHi      OBJECT-TYPE
   SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "If the event represents a threshold crossing event, the two
    objects dot3OamEventWindowHi and dot3OamEventWindowLo, form
```

```
    an unsigned 64-bit integer yielding the window over which the
    value was measured for the threshold crossing event (for
    example, 5, when 11 occurrences happened in 5 seconds while
    the threshold was 10).  The two objects are combined as:

    dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
                            + dot3OamEventLogWindowLo

    Otherwise, this value is returned as all F's (2^32 - 1) and
    adds no useful information.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
  ::= { dot3OamEventLogEntry 6 }

 dot3OamEventLogWindowLo      OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "If the
event represents a threshold crossing event, the two
    objects dot3OamEventWindowHi and dot3OamEventWindowLo form an
    unsigned 64-bit integer yielding the window over which the
    value was measured for the threshold crossing event (for
    example, 5, when 11 occurrences happened in 5 seconds while
    the threshold was 10).  The two objects are combined as:

    dot3OamEventLogWindow = ((2^32) * dot3OamEventLogWindowHi)
                            + dot3OamEventLogWindowLo

    Otherwise, this value is returned as all F's (2^32 - 1) and
    adds no useful information.
    "
  REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
  ::= { dot3OamEventLogEntry 7 }

 dot3OamEventLogThresholdHi      OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
    "If the event represents a threshold crossing event, the two
    objects dot3OamEventThresholdHi and dot3OamEventThresholdLo
     form an unsigned 64-bit integer yielding the value that was
    crossed for the threshold crossing event (for example, 10,
```

```
    when 11 occurrences happened in 5 seconds while the threshold
    was 10).  The two objects are combined as:

   dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
                              + dot3OamEventLogThresholdLo

    Otherwise, this value is returned as all F's (2^32 -1) and
    adds no useful information.
    "



   REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
   ::= { dot3OamEventLogEntry 8 }

  dot3OamEventLogThresholdLo      OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
    "If the event represents a threshold crossing event, the two
    objects dot3OamEventThresholdHi and dot3OamEventThresholdLo
    form an unsigned 64-bit integer yielding the value that was
    crossed for the threshold crossing event (for example,
 10,
    when 11 occurrences happened in 5 seconds while the threshold
    was 10).  The two objects are combined as:

   dot3OamEventLogThreshold = ((2^32) * dot3OamEventLogThresholdHi)
                              + dot3OamEventLogThresholdLo

    Otherwise, this value is returned as all F's (2^32 - 1) and
    adds no useful information.
    "
   REFERENCE   "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
   ::= { dot3OamEventLogEntry 9 }

  dot3OamEventLogValue      OBJECT-TYPE
   SYNTAX      CounterBasedGauge64
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
    "If the event represents a threshold crossing event, this
    value indicates the value of the parameter within the given
    window that generated this event (for example, 11, when 11
    occurrences happened in 5 seconds while the threshold was 10).

    Otherwise, this value is returned as all F's
```

(2^64 - 1) and adds no useful information.

"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 10 }

dot3OamEventLogRunningTotal OBJECT-TYPE
SYNTAX CounterBasedGauge64
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Each Event Notification TLV contains a running total of the
number of times an event has occurred, as well as the number
of times an Event Notification for the event has been

transmitted. For non-threshold crossing events, the number of
events (dot3OamLogRunningTotal) and the number of resultant
Event Notifications (dot3OamLogEventTotal) should be
identical.

For threshold crossing events, since multiple occurrences may
be required to cross the threshold, these values are likely
different. This value represents the total number of times
this event has happened since the last reset (for example,
3253, when 3253 symbol errors have occurred since the last
reset, which has resulted in 51 symbol error threshold
crossing events since the last reset).
"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 11 }

dot3OamEventLogEventTotal OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"Each Event Notification TLV contains a running total of the
number of times an event has occurred, as well as the number
of times an Event Notification for the event has been
transmitted. For non-threshold crossing events, the number of
events (dot3OamLogRunningTotal) and the number of resultant
Event Notifications (dot3OamLogEventTotal) should be
identical.

For threshold crossing events, since multiple occurrences may
be required to cross the threshold, these values are likely

different. This value represents the total number of times
one or more of these
occurrences have resulted in an Event
Notification (for example, 51 when 3253 symbol errors have
occurred since the last reset, which has resulted in 51 symbol
error threshold crossing events since the last reset).
"
REFERENCE "[802.3ah], 30.3.6.1.37 and 57.5.3.2."
::= { dot3OamEventLogEntry 12 }

-- **
--
-- Ethernet OAM Notifications
--

dot3OamThresholdEvent NOTIFICATION-TYPE
OBJECTS { dot3OamEventLogTimestamp,
dot3OamEventLogOui,

dot3OamEventLogType,
dot3OamEventLogLocation,
dot3OamEventLogWindowHi,
dot3OamEventLogWindowLo,
dot3OamEventLogThresholdHi,
dot3OamEventLogThresholdLo,
dot3OamEventLogValue,
dot3OamEventLogRunningTotal,
dot3OamEventLogEventTotal
}
STATUS current
DESCRIPTION

"A dot3OamThresholdEvent notification is sent when a local or
remote threshold crossing event is detected. A local
threshold crossing event is detected by the local entity,
while a remote threshold crossing event is detected by the
reception of an Ethernet OAM Event Notification OAMPDU
that indicates a threshold event.

This notification should not be sent more than once per
second.

The OAM entity can be derived from extracting the ifIndex from
the variable bindings. The objects in the notification
correspond to the values in a row instance in the
dot3OamEventLogTable.

```
    The management entity should periodically check
    dot3OamEventLogTable to detect any missed events."
  ::= { dot3OamNotifications 1 }

 dot3OamNonThresholdEvent NOTIFICATION-TYPE
   OBJECTS { dot3OamEventLogTimestamp,
             dot3OamEventLogOui,
             dot3OamEventLogType,
             dot3OamEventLogLocation,
              dot3OamEventLogEventTotal
            }
   STATUS  current
   DESCRIPTION
    "A dot3OamNonThresholdEvent notification is sent when a local
    or remote non-threshold crossing event is detected.  A local
    event is detected by the local entity, while a remote event is
    detected by the reception of an Ethernet OAM Event
    Notification OAMPDU that indicates a non-threshold crossing
    event.

    This notification should not be sent more than once per




    second.

    The OAM entity can be derived from extracting the ifIndex from
    the variable bindings.  The objects in the notification
    correspond to the values in a row instance of the
    dot3OamEventLogTable.

    The management entity should periodically check
    dot3OamEventLogTable to detect any missed events."
  ::= { dot3OamNotifications 2 }

 -- ****************************************************************
 --
 -- Ethernet OAM Compliance
group
 --

 dot3OamGroups OBJECT IDENTIFIER ::= { dot3OamConformance 1 }
 dot3OamCompliances OBJECT IDENTIFIER ::= { dot3OamConformance 2 }

 -- Compliance statements

 dot3OamCompliance MODULE-COMPLIANCE
```

```
 STATUS         current
 DESCRIPTION "The compliance statement for managed entities
          supporting OAM on Ethernet-like interfaces.
          "
MODULE   -- this module
 MANDATORY-GROUPS { dot3OamControlGroup,
               dot3OamPeerGroup,
               dot3OamStatsBaseGroup
             }

 GROUP       dot3OamLoopbackGroup
 DESCRIPTION
  "This group is mandatory for all IEEE 802.3 OA
  implementations that support loopback functionality. "

 GROUP       dot3OamErrSymbolPeriodEventGroup
 DESCRIPTION
  "This group is mandatory for all IEEE 802.3 OA
  implementations that support event functionality. "

 GROUP       dot3OamErrFramePeriodEventGroup
 DESCRIPTION

 "This group is mandatory for all IEEE 802.3 OA
  implementations that support event functionality. "

 GROUP       dot3OamErrFrameEventGroup



 DESCRIPTION
  "This group is mandatory for all IEEE 802.3 OA
  implementations that support event functionality. "

 GROUP       dot3OamErrFrameSecsSummaryEventGroup
 DESCRIPTION
  "This group is mandatory for all IEEE 802.3 OA
  implementations that support event functionality. "

 GROUP       dot3OamFlagEventGroup
 DESCRIPTION
  "This group is optional for all IEEE 802.3 OA
  implementations.  The ability to send critical events or dying
  gasp events is not required in any system."

 GROUP       dot3OamEventLogGroup
 DESCRIPTION
  "This group is optional for all IEEE 802.3 OA
```

```
    implementations.  Entries in this table are dependent on what
    event functionality is supported in the local OA
    implementation.  At least one type of event must be supported
     for entries to appear in this table.  "

  GROUP       dot3OamNotificationGroup
  DESCRIPTION
    "This group is optional for all IEEE 802.3 OA
    implementations.  Since the information in the notifications
    is dependent on the dot3OamEventLogTable, that table must be
    implemented for notifications.  "

  ::= { dot3OamCompliances 1}

dot3OamControlGroup OBJECT-GROUP
  OBJECTS     {   dot3OamAdminState,
                  dot3OamOperStatus,
                  dot3OamMode,
                  dot3OamMaxOamPduSize,
                  dot3OamConfigRevision,
                  dot3OamFunctionsSupported
                }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the abilities,
    configuration, and status of an Ethernet OAM entity.  "
  ::= { dot3OamGroups 1 }

dot3OamPeerGroup OBJECT-GROUP
  OBJECTS     {   dot3OamPeerMacAddress,




                  dot3OamPeerVendorOui,

                 dot3OamPeerVendorInfo,
                  dot3OamPeerMode,
                  dot3OamPeerFunctionsSupported,
                  dot3OamPeerMaxOamPduSize,
                  dot3OamPeerConfigRevision
                }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the abilities,
    configuration, and status of a peer Ethernet OAM entity.  "
  ::= { dot3OamGroups 2 }

dot3OamStatsBaseGroup OBJECT-GROUP
```

```
  OBJECTS     {   dot3OamInformationTx,
                  dot3OamInformationRx,
                  dot3OamUniqueEventNotificationTx,
                  dot3OamUniqueEventNotificationRx,
                  dot3OamDuplicateEventNotificationTx,
                  dot3OamDuplicateEventNotificationRx,
                  dot3OamLoopbackControlTx,
                  dot3OamLoopbackControlRx,
                  dot3OamVariableRequestTx,
                  dot3OamVariableRequestRx,
                  dot3OamVariableResponseTx,
                   dot3OamVariableResponseRx,
                  dot3OamOrgSpecificTx,
                  dot3OamOrgSpecificRx,
                  dot3OamUnsupportedCodesTx,
                  dot3OamUnsupportedCodesRx,
                  dot3OamFramesLostDueToOam
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects providing the statistics for the
    number of various transmit and receive events for OAM on an
    Ethernet-like interface.  Note that all of these counters must
    be supported even if the related function (as described in
    dot3OamFunctionsSupported) is not supported.  "
  ::= { dot3OamGroups 3 }

dot3OamLoopbackGroup OBJECT-GROUP
  OBJECTS     {   dot3OamLoopbackStatus,
                  dot3OamLoopbackIgnoreRx
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for controlling the OAM remote




    loopback function.  "

::= { dot3OamGroups 4 }

dot3OamErrSymbolPeriodEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrSymPeriodWindowHi,
                  dot3OamErrSymPeriodWindowLo,
                  dot3OamErrSymPeriodThresholdHi,
                  dot3OamErrSymPeriodThresholdLo,
                  dot3OamErrSymPeriodEvNotifEnable
              }
```

```
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Symbol Period Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 5 }

dot3OamErrFramePeriodEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFramePeriodWindow,
                  dot3OamErrFramePeriodThreshold,
                  dot3OamErrFramePeriodEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for
configuring the thresholds for an
    Errored Frame Period Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 6 }

dot3OamErrFrameEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFrameWindow,
                  dot3OamErrFrameThreshold,
                  dot3OamErrFrameEvNotifEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "



  ::= { dot3OamGroups 7 }

dot3OamErrFrameSecsSummaryEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamErrFrameSecsSummaryWindow,
                  dot3OamErrFrameSecsSummaryThreshold,
                  dot3OamErrFrameSecsEvNotifEnable
```

```
            }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event.

    Each [802.3ah] defined Event Notification TLV has its own
    conformance group because each event can be implemented
    independently of any other.  "
  ::= { dot3OamGroups 8 }

dot3OamFlagEventGroup OBJECT-GROUP
  OBJECTS     {   dot3OamDyingGaspEnable,
                  dot3OamCriticalEventEnable
              }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the sending OAMPDUs
    with the critical event flag or dying gasp flag enabled.  "
  ::= { dot3OamGroups 9 }

dot3OamEventLogGroup OBJECT-GROUP
  OBJECTS {  dot3OamEventLogTimestamp,
             dot3OamEventLogOui,
             dot3OamEventLogType,
             dot3OamEventLogLocation,
             dot3OamEventLogWindowHi,
             dot3OamEventLogWindowLo,
              dot3OamEventLogThresholdHi,
             dot3OamEventLogThresholdLo,
             dot3OamEventLogValue,
             dot3OamEventLogRunningTotal,
             dot3OamEventLogEventTotal
           }
  STATUS      current
  DESCRIPTION
    "A collection of objects for configuring the thresholds for an
    Errored Frame Seconds Summary Event and maintaining the event
    information.  "
  ::= { dot3OamGroups 10 }

dot3OamNotificationGroup NOTIFICATION-GROUP



  NOTIFICATIONS {
             dot3OamThresholdEvent,
             dot3OamNonThresholdEvent
```

```
            }
  STATUS      current
  DESCRIPTION
    "A collection of notifications used by Ethernet OAM to signal
    to a management entity that local or remote events have
    occurred on a specified Ethernet link. "
  ::= { dot3OamGroups 11 }

 END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-MIB
No license file was found, but licenses were detected in source scan.

```
SYSAPPL-MIB DEFINITIONS ::= BEGIN

 IMPORTS
    MODULE-IDENTITY, OBJECT-TYPE,
    Unsigned32, TimeTicks, Counter32, Gauge32
       FROM SNMPv2-SMI
    DateAndTime, TEXTUAL-CONVENTION
       FROM SNMPv2-TC
    MODULE-COMPLIANCE, OBJECT-GROUP
       FROM SNMPv2-CONF
    mib-2 FROM SNMPv2-SMI;

 -- System Application MIB

 sysApplMIB MODULE-IDENTITY
    LAST-UPDATED "9710200000Z"
    ORGANIZATION "IETF Applications MIB Working Group"
    CONTACT-INFO
         "Cheryl Krupczak (Editor, WG Advisor)
          Postal: Empire Technologies, Inc.
          541 Tenth Street NW
          Suite 169
          Atlanta, GA 30318
          USA
          Phone: (770) 384-0184
          Email: cheryl@empiretech.com

          Jon Saperia (WG Chair)
          Postal:  BGS Systems, Inc.
          One First Avenue
          Waltham, MA 02254-9111
          USA
```

```
 Phone: (617) 891-0000
         Email: saperia@networks.bgs.com"
    DESCRIPTION
       "The MIB module defines management objects that model
       applications as collections of executables and files
       installed and executing on a host system.  The MIB
       presents a system-level view of applications; i.e.,
       objects in this MIB are limited to those attributes
       that can typically be obtained from the system itself
       without adding special instrumentation to the applications."
    ::= { mib-2 54  }


sysApplOBJ              OBJECT IDENTIFIER ::= { sysApplMIB 1 }
sysApplInstalled        OBJECT IDENTIFIER ::= { sysApplOBJ 1 }
sysApplRun              OBJECT IDENTIFIER ::= { sysApplOBJ 2 }
sysApplMap              OBJECT IDENTIFIER ::= { sysApplOBJ 3 }
sysApplNotifications    OBJECT IDENTIFIER ::= { sysApplMIB 2 }
sysApplConformance      OBJECT IDENTIFIER ::= { sysApplMIB 3 }

-- Textual Conventions

RunState ::= TEXTUAL-CONVENTION
     STATUS      current
    DESCRIPTION
       "This TC describes the current execution state of
       a running application or process.  The possible
       values are:
         running(1),
         runnable(2),  - waiting for a resource (CPU, etc.)
         waiting(3),   - waiting for an event
         exiting(4),
         other(5)      - other invalid state"
    SYNTAX      INTEGER {
                running (1),
                runnable (2), -- waiting for resource (CPU, etc.)
                waiting (3),  -- waiting for event
                exiting (4),
                other (5)     -- other invalid state
                }

LongUtf8String ::= TEXTUAL-CONVENTION
      DISPLAY-HINT "1024a"
      STATUS  current
      DESCRIPTION
            "To facilitate internationalization, this TC
             represents information taken from the ISO/IEC IS
             10646-1 character set, encoded as an octet string
```

```
            using the UTF-8 character encoding scheme described
            in RFC 2044 [10].  For strings in 7-bit US-ASCII,
            there is no impact since the UTF-8 representation
            is identical to the US-ASCII encoding."
        SYNTAX  OCTET STRING (SIZE (0..1024))

Utf8String ::= TEXTUAL-CONVENTION
        DISPLAY-HINT "255a"
        STATUS  current
        DESCRIPTION
            "To facilitate internationalization, this TC
            represents information taken from the ISO/IEC IS
            10646-1 character set, encoded as an octet string
            using the UTF-8 character encoding scheme described
            in RFC 2044 [10].  For strings in 7-bit US-ASCII,
            there is no impact since the UTF-8 representation
            is identical to the US-ASCII encoding."
        SYNTAX  OCTET STRING (SIZE (0..255))



-- sysApplInstalled Group
-- This group provides information about application
packages
-- that have been installed on the host computer.  The group
-- contains two tables.  The first, the sysApplInstallPkgTable,
-- describes the application packages, the second, the
-- sysApplInstallElmtTable, describes the constituent elements
-- (files and executables) which compose an application package.

--
-- In order to appear in this group, an application and its
-- component files must be discoverable by the system itself,
-- possibly through some type of software installation mechanism
-- or registry.

-- sysApplInstallPkgTable
-- The system installed application packages table provides
-- information on the software packages installed on a system.
-- These packages may consist of many different files including
-- executable and non-executable files.

sysApplInstallPkgTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SysApplInstallPkgEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table listing
```

```
the software application packages
        installed on a host computer. In order to appear in
        this table, it may be necessary for the application
        to be installed using some type of software
        installation mechanism or global registry so that its
        existence can be detected by the agent implementation."

    ::= { sysApplInstalled 1 }

sysApplInstallPkgEntry OBJECT-TYPE
    SYNTAX      SysApplInstallPkgEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row describing an installed application
        package."
    INDEX    { sysApplInstallPkgIndex }
    ::= { sysApplInstallPkgTable 1 }

SysApplInstallPkgEntry ::= SEQUENCE {
    sysApplInstallPkgIndex              Unsigned32,
    sysApplInstallPkgManufacturer       Utf8String,
    sysApplInstallPkgProductName        Utf8String,
    sysApplInstallPkgVersion            Utf8String,
    sysApplInstallPkgSerialNumber
     Utf8String,
    sysApplInstallPkgDate               DateAndTime,
    sysApplInstallPkgLocation           LongUtf8String
}

sysApplInstallPkgIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "An integer used only for indexing purposes.
        Generally monotonically increasing from 1 as new
        applications are installed.

        The value for each installed application must
        remain constant at least from one re-initialization of
        the network management entity which implements this
        MIB module to the next re-initialization.

        The specific value is meaningful only within a given SNMP
        entity. A sysApplInstallPkgIndex value must not be re-used
        until the next agent entity restart in the event the
        installed application entry is deleted."
```

```
    ::= { sysApplInstallPkgEntry 1 }

sysApplInstallPkgManufacturer
OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The Manufacturer of the software application package."
    ::= { sysApplInstallPkgEntry 2 }

sysApplInstallPkgProductName OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The name assigned to the software application package
        by the Manufacturer."
    ::= { sysApplInstallPkgEntry 3 }

sysApplInstallPkgVersion OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The version number assigned to the application package
        by the manufacturer of the software."
    ::= { sysApplInstallPkgEntry 4 }

sysApplInstallPkgSerialNumber OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The serial number of the software assigned
by the
        manufacturer."
    ::= { sysApplInstallPkgEntry 5 }

sysApplInstallPkgDate OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time this software application was installed
        on the host."
    ::= { sysApplInstallPkgEntry 6 }
```

```
sysApplInstallPkgLocation OBJECT-TYPE
   SYNTAX      LongUtf8String
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The complete path name where the application package
      is installed.  For example, the value would be
      '/opt/MyapplDir' if the application package was installed
      in the /opt/MyapplDir directory."
   ::= { sysApplInstallPkgEntry 7 }


-- sysApplInstallElmtTable
-- The table describing the individual application package
-- elements (files and executables) installed on the host computer.

sysApplInstallElmtTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplInstallElmtEntry
    MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "This table details the individual application package
      elements (files and executables) which comprise the
      applications defined in the sysApplInstallPkg Table.
      Each entry in this table has an index to the
      sysApplInstallPkg table to identify the application
      package of which it is a part. As a result, there may
      be many entries in this table for each instance in the
      sysApplInstallPkg Table.

      Table entries are indexed by sysApplInstallPkgIndex,
      sysApplInstallElmtIndex to facilitate retrieval of
      all elements associated with a particular installed
      application package."
   ::= { sysApplInstalled 2 }

sysApplInstallElmtEntry OBJECT-TYPE
   SYNTAX      SysApplInstallElmtEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The logical row
describing an element of an installed
      application.  The element may be an executable or
      non-executable file."
   INDEX    {sysApplInstallPkgIndex, sysApplInstallElmtIndex}
   ::= { sysApplInstallElmtTable 1 }
```

```
SysApplInstallElmtEntry ::= SEQUENCE {
   sysApplInstallElmtIndex              Unsigned32,
   sysApplInstallElmtName               Utf8String,
   sysApplInstallElmtType               INTEGER,
   sysApplInstallElmtDate               DateAndTime,
   sysApplInstallElmtPath               LongUtf8String,
   sysApplInstallElmtSizeHigh           Unsigned32,
   sysApplInstallElmtSizeLow            Unsigned32,
   sysApplInstallElmtRole               BITS,
   sysApplInstallElmtModifyDate         DateAndTime,
   sysApplInstallElmtCurSizeHigh        Unsigned32,
   sysApplInstallElmtCurSizeLow         Unsigned32

}

sysApplInstallElmtIndex OBJECT-TYPE
   SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "An arbitrary integer used for indexing.  The value
      of this index is unique among all rows in this table
      that exist or have existed since the last agent restart."
   ::= { sysApplInstallElmtEntry 1 }


sysApplInstallElmtName OBJECT-TYPE
   SYNTAX      Utf8String
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The name of this element which is contained in the
      application."
   ::= { sysApplInstallElmtEntry 2 }

sysApplInstallElmtType OBJECT-TYPE
   SYNTAX      INTEGER {
               unknown(1),
               nonexecutable(2),
               operatingSystem(3),  -- executable
               deviceDriver(4),     -- executable
               application(5)       -- executable
               }
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The type of element that is
```

```
part of the installed
        application."
    ::= { sysApplInstallElmtEntry 3 }

sysApplInstallElmtDate OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The date and time that this component was installed on
        the system."
    ::= { sysApplInstallElmtEntry 4 }

sysApplInstallElmtPath OBJECT-TYPE
    SYNTAX      LongUtf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The full directory path where this element is installed.
        For example, the value would be '/opt/EMPuma/bin' for an
        element installed in the directory '/opt/EMPuma/bin'.
        Most application packages include information about the
        elements contained in the package. In addition, elements
        are typically installed in sub-directories under the
        package installation directory.  In cases where the
        element path names are not included
in the package
        information itself, the path can usually be determined
        by a simple search of the sub-directories.  If the
        element is not installed in that location and there is
        no other information available to the agent implementation,
        then the path is unknown and null is returned."
    ::= { sysApplInstallElmtEntry 5}

sysApplInstallElmtSizeHigh OBJECT-TYPE
    SYNTAX      Unsigned32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The installed file size in 2^32 byte blocks. This is
        the size of the file on disk immediately after installation.

        For example, for a file with a total size of 4,294,967,296
        bytes, this variable would have a value of 1; for a file
        with a total size of 4,294,967,295 bytes this variable
        would be 0."
    ::= { sysApplInstallElmtEntry 6 }
```

```
sysApplInstallElmtSizeLow OBJECT-TYPE
   SYNTAX      Unsigned32
   MAX-ACCESS
 read-only
   STATUS      current
   DESCRIPTION
      "The installed file size modulo 2^32 bytes.  This is
      the size of the file on disk immediately after installation.

      For example, for a file with a total size of 4,294,967,296
      bytes this variable would have a value of 0; for a file with
      a total size of 4,294,967,295 bytes this variable would be
      4,294,967,295."
   ::= { sysApplInstallElmtEntry 7 }

sysApplInstallElmtRole  OBJECT-TYPE
   SYNTAX      BITS {
            executable(0),
              -- An application may have one or
              -- more executable elements.  The rest of the
              -- bits have no meaning if the element is not
              -- executable.
            exclusive(1),
              -- Only one copy of an exclusive element may be
              -- running per invocation of the running
              -- application.

        primary(2),
              -- The primary executable.  An application can
              -- have one, and only one element that is designated
              -- as the primary executable.  The execution of
              -- this element constitutes an invocation of
              -- the application.  This is used by the agent
              -- implementation to determine the initiation of
              -- an application.  The primary executable must
              -- remain running long enough for the agent
              -- implementation to detect its presence.
            required(3),
              -- An application may have zero or more required
              -- elements. All required elements must be running

              -- in order for the application to be judged to be
              -- running and healthy.
            dependent(4),
              -- An application may have
zero or more
              -- dependent elements. Dependent elements may
              -- not be running unless required elements are.
```

```
            unknown(5)
              -- Default value for the case when an operator
              -- has not yet assigned one of the other values.
              -- When set, bits 1, 2, 3, and 4 have no meaning.
            }
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       "An operator assigned value used in the determination of
       application status. This value is used by the agent to
       determine both the mapping of started processes to the
       initiation of an application, as well as to allow for a
       determination of application health. The default value,
       unknown(5), is used when an operator has not yet assigned
       one of the other values.  If unknown(5) is set, bits
       1 - 4 have no meaning.  The possible values are:

            executable(0),
              An application may have one or
              more executable elements.  The rest of the
              bits have no meaning if the element is not
              executable.
            exclusive(1),
              Only one copy of an exclusive element may be
              running per invocation of the running
              application.
            primary(2),
              The primary executable.  An application can
              have one, and only one element that is designated
              as the primary executable.  The execution of
              this element constitutes an invocation of
              the application.  This is used by the agent
              implementation to determine the initiation of
              an application.  The primary executable must
              remain running long enough for
the agent
              implementation to detect its presence.
            required(3),
              An application may have zero or more required
              elements. All required elements must be running
              in order for the application to be judged to be
              running and healthy.
            dependent(4),
              An application may have zero or more
              dependent elements. Dependent elements may
              not be running unless required elements are.
            unknown(5)
              Default value for the case when an operator
```

has not yet assigned one of the other values.
When set, bits 1, 2, 3, and 4 have no meaning.

sysApplInstallElmtRole is used by the agent implementation
in determining the initiation of an application, the
current state of a running application (see
sysApplRunCurrentState), when an application invocation is
no longer running, and the exit status of a terminated
application invocation (see sysApplPastRunExitState)."

DEFVAL { { unknown } }
::= { sysApplInstallElmtEntry 8 }

sysApplInstallElmtModifyDate OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The date and time that this element was last modified.
Modification of the sysApplInstallElmtRole columnar
object does NOT constitute a modification of the element
itself and should not affect the value of this object."
::= { sysApplInstallElmtEntry 9 }

sysApplInstallElmtCurSizeHigh OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current file size in 2^32 byte blocks.
For example, for a file with a total size of 4,294,967,296
bytes,
this variable would have a value of 1; for a file
with a total size of 4,294,967,295 bytes this variable
would be 0."
::= { sysApplInstallElmtEntry 10 }

sysApplInstallElmtCurSizeLow OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The current file size modulo 2^32 bytes.
For example, for a file with a total size of 4,294,967,296
bytes this variable would have a value of 0; for a file with
a total size of 4,294,967,295 bytes this variable would be
4,294,967,295."
::= { sysApplInstallElmtEntry 11 }

```
-- sysApplRun Group
-- This group models activity information for applications
-- that have been invoked and are either currently running,
-- or have previously run on the host system.  Likewise,
-- the individual elements of an invoked application are
-- also modeled to show currently running processes, and
-- processes that
have run in the past.

-- sysApplRunTable
-- The sysApplRunTable contains the application instances
-- which are currently running on the host.  Since a single
-- application might be invoked multiple times, an entry is
-- added to this table for each INVOCATION of an application.
-- The table is indexed by sysApplInstallPkgIndex, sysApplRunIndex
-- to enable managers to easily locate all invocations of
-- a particular application package.

sysApplRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The table describes the applications which are executing
      on the host.  Each time an application is invoked,
      an entry is created in this table. When an application ends,
      the entry is removed from this table and a corresponding
            entry is created in the SysApplPastRunTable.

      A new entry is created in this table whenever
the agent
      implementation detects a new running process that is an
      installed application element whose sysApplInstallElmtRole
      designates it as being the application's primary executable
      (sysApplInstallElmtRole = primary(2) ).

      The table is indexed by sysApplInstallPkgIndex,
      sysApplRunIndex to enable managers to easily locate all
      invocations of a particular application package."
   ::= { sysApplRun 1 }

sysApplRunEntry OBJECT-TYPE
   SYNTAX      SysApplRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
```

```
    DESCRIPTION
        "The logical row describing an application which is
        currently running on this host."
    INDEX    { sysApplInstallPkgIndex, sysApplRunIndex }
    ::= { sysApplRunTable   1 }

SysApplRunEntry ::= SEQUENCE {
    sysApplRunIndex                 Unsigned32,
    sysApplRunStarted               DateAndTime,
    sysApplRunCurrentState
            RunState
}

sysApplRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An arbitrary
        integer used only for indexing purposes. Generally
        monotonically increasing from 1 as new applications are
        started on the host, it uniquely identifies application
        invocations.

        The numbering for this index increases by 1 for each
        INVOCATION of an application, regardless of which
        installed application package this entry represents a
        running instance of.

        An example of the indexing for a couple of entries is
        shown below.

                :
            sysApplRunStarted.17.14
            sysApplRunStarted.17.63
            sysApplRunStarted.18.13
                :

        In this example, the agent has observed 12
application
        invocations when the application represented by entry 18
        in the sysApplInstallPkgTable is invoked.  The next
        invocation detected by the agent is an invocation of
        installed application package 17.  Some time later,
        installed application 17 is invoked a second time.

        NOTE: this index is not intended to reflect a real-time
        (wall clock time) ordering of application invocations;
```

```
        it is merely intended to uniquely identify running
        instances of applications.  Although the
        sysApplInstallPkgIndex is included in the INDEX clause
        for this table, it serves only to ease searching of
        this table by installed application and does not
        contribute to uniquely identifying table entries."
    ::= { sysApplRunEntry 1 }

sysApplRunStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The
date and time that the application was started."
    ::= { sysApplRunEntry 2 }

sysApplRunCurrentState OBJECT-TYPE
    SYNTAX      RunState
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current state of the running application instance.
        The possible values are running(1), runnable(2) but waiting
        for a resource such as CPU, waiting(3) for an event,
        exiting(4), or other(5). This value is based on an evaluation
        of the running elements of this application instance (see
        sysApplElmRunState) and their Roles as defined by
        sysApplInstallElmtRole.  An agent implementation may
        detect that an application instance is in the process of
        exiting if one or more of its REQUIRED elements are no
        longer running.  Most agent implementations will wait until
        a second internal poll has been completed to give the
        system time to start REQUIRED elements before
marking the
        application instance as exiting."
    ::= { sysApplRunEntry 3 }


-- sysApplPastRunTable
-- The sysApplPastRunTable provides a history of applications
-- previously run on the host computer. Entries are removed from
-- the sysApplRunTable and corresponding entries are added to this
-- table when an application becomes inactive. Entries remain in
-- this table until they are aged out when either the table size
-- reaches a maximum as determined by the sysApplPastRunMaxRows,
-- or when an entry has aged to exceed a time limit as set be
-- sysApplPastRunTblTimeLimit.
```

```
--
-- When aging out entries, the oldest entry, as determined by

-- the value of sysApplPastRunTimeEnded, will be removed first.

sysApplPastRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplPastRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "A history of the applications that have previously run
      on the host
computer.  An entry's information is moved to
      this table from the sysApplRunTable when the invoked
      application represented by the entry ceases to be running.

      An agent implementation can determine that an application
      invocation is no longer running by evaluating the running
      elements of the application instance and their Roles as
      defined by sysApplInstallElmtRole.  Obviously, if there
      are no running elements for the application instance,
      then the application invocation is no longer running.
      If any one of the REQUIRED elements is not running,
      the application instance may be in the process of exiting.
      Most agent implementations will wait until a second internal
      poll has been completed to give the system time to either
      restart partial failures or to give all elements time to
      exit.  If, after the second poll, there are REQUIRED
      elements that
are not running, then the application
      instance may be considered by the agent implementation
      to no longer be running.

      Entries remain in the sysApplPastRunTable until they
      are aged out when either the table size reaches a maximum
      as determined by the sysApplPastRunMaxRows, or when an entry
      has aged to exceed a time limit as set by
      sysApplPastRunTblTimeLimit.

      Entries in this table are indexed by sysApplInstallPkgIndex,
      sysApplPastRunIndex to facilitate retrieval of all past
      run invocations of a particular installed application."
   ::= { sysApplRun 2 }

sysApplPastRunEntry OBJECT-TYPE
   SYNTAX      SysApplPastRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
```

```
    DESCRIPTION
        "The logical row describing an invocation of an application
        which was previously run and has terminated.  The entry
        is basically copied from the sysApplRunTable
when the
        application instance terminates.  Hence, the entry's
        value for sysApplPastRunIndex is the same as its value was
        for sysApplRunIndex."
    INDEX    { sysApplInstallPkgIndex, sysApplPastRunIndex }
    ::= { sysApplPastRunTable   1 }

SysApplPastRunEntry ::= SEQUENCE {
    sysApplPastRunIndex                 Unsigned32,
    sysApplPastRunStarted               DateAndTime,
    sysApplPastRunExitState              INTEGER,
    sysApplPastRunTimeEnded               DateAndTime
}

sysApplPastRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An integer
        matching the value of the removed sysApplRunIndex
        corresponding to this row."
    ::= { sysApplPastRunEntry 1 }

sysApplPastRunStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS
     current
    DESCRIPTION
        "The date and time that the application was started."
    ::= { sysApplPastRunEntry 2 }

sysApplPastRunExitState OBJECT-TYPE
    SYNTAX      INTEGER {
                complete (1), -- normal exit at sysApplRunTimeEnded
                failed (2),   -- abnormal exit
                other (3)
                }
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "The state of the application instance when it terminated.
       This value is based on an evaluation of the running elements
```

```
        of an application and their Roles as defined by
        sysApplInstallElmtRole.  An application instance is said to
        have exited in a COMPLETE state and its entry is removed
        from the sysApplRunTable and added to the sysApplPastRunTable
        when the agent detects that ALL elements of an application
        invocation are no longer running.  Most agent implementations
        will wait
until a second internal poll has been completed to
        give the system time to either restart partial failures or
        to give all elements time to exit.  A failed state occurs if,
        after the second poll, any elements continue to run but
        one or more of the REQUIRED elements are no longer running.
        All other combinations MUST be defined as OTHER."
    ::= { sysApplPastRunEntry 3 }

sysApplPastRunTimeEnded OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The DateAndTime the application instance was determined
        to be no longer running."
    ::= { sysApplPastRunEntry 4 }

-- sysApplElmtRunTable
-- The sysApplElmtRunTable contains an entry for each process that
-- is currently running on the host.  An entry is created in
-- this table for each process at the time it is started, and will
-- remain in the table until the process terminates.
--
-- The table
is indexed by sysApplElmtRunInstallPkg,
-- sysApplElmtRunInvocID, and sysApplElmtRunIndex to make it easy
-- to locate all running elements of a particular invoked application
-- which has been installed on the system.


sysApplElmtRunTable OBJECT-TYPE
    SYNTAX      SEQUENCE OF SysApplElmtRunEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The table describes the processes which are
        currently executing on the host system. Each entry
        represents a running process and is associated with
        the invoked application of which that process is a part, if
        possible.  This table contains an entry for every process
        currently running on the system, regardless of whether its
```

```
        'parent' application can be determined.  So, for example,
        processes like 'ps' and 'grep' will have entries though they
        are not associated with an installed application package.

        Because
a running application may involve
        more than one executable, it is possible to have
        multiple entries in this table for each application.
        Entries are removed from this table when the process
        terminates.
        The table is indexed by sysApplElmtRunInstallPkg,
        sysApplElmtRunInvocID, and sysApplElmtRunIndex to
        facilitate the retrieval of all running elements of a
        particular invoked application which has been installed on
        the system."
    ::= { sysApplRun 3 }

sysApplElmtRunEntry OBJECT-TYPE
    SYNTAX      SysApplElmtRunEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row describing a process currently
        running on this host.  When possible, the entry is
        associated with the invoked application of which it
        is a part."
    INDEX    { sysApplElmtRunInstallPkg, sysApplElmtRunInvocID,
               sysApplElmtRunIndex
}
    ::= { sysApplElmtRunTable   1 }

SysApplElmtRunEntry ::= SEQUENCE {
    sysApplElmtRunInstallPkg       Unsigned32,
    sysApplElmtRunInvocID          Unsigned32,
    sysApplElmtRunIndex            Unsigned32,
    sysApplElmtRunInstallID        Unsigned32,
    sysApplElmtRunTimeStarted      DateAndTime,
    sysApplElmtRunState            RunState,
    sysApplElmtRunName             LongUtf8String,
    sysApplElmtRunParameters       Utf8String,
    sysApplElmtRunCPU              TimeTicks,
    sysApplElmtRunMemory           Gauge32,
    sysApplElmtRunNumFiles         Gauge32,
    sysApplElmtRunUser             Utf8String
}

sysApplElmtRunInstallPkg OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
```

```
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies the installed software package for
        the application of which this process
is a part.
        Provided that the process's 'parent' application can be
        determined, the value of this object is the same
        value as the sysApplInstallPkgIndex for the
        entry in the sysApplInstallPkgTable that corresponds
        to the installed application of which this process
        is a part.

        If, however, the 'parent' application cannot be
        determined, (for example the process is not part
        of a particular installed application), the value
        for this object is then '0', signifying that this
        process cannot be related back to an application,
        and in turn, an installed software package."
    ::= { sysApplElmtRunEntry 1 }

sysApplElmtRunInvocID OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies the invocation of an application of which
         this process is a part.  Provided that the 'parent'
        application can be determined, the value of this object
        is the same value as the sysApplRunIndex for the
        corresponding application invocation in the
        sysApplRunTable.

        If, however, the 'parent' application cannot be
        determined, the value for this object is then '0',
        signifying that this process cannot be related back
        to an invocation of an application in the
        sysApplRunTable."
    ::= { sysApplElmtRunEntry 2 }

sysApplElmtRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table.  A unique value
```

```
        for each process running on the host.  Wherever
        possible, this should be the system's native, unique
        identification number."
    ::= { sysApplElmtRunEntry 3 }


sysApplElmtRunInstallID
OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The index into the sysApplInstallElmtTable. The
        value of this object is the same value as the
        sysApplInstallElmtIndex for the application element
        of which this entry represents a running instance.
        If this process cannot be associated with an installed
        executable, the value should be '0'."
    ::= { sysApplElmtRunEntry 4 }

sysApplElmtRunTimeStarted OBJECT-TYPE
    SYNTAX      DateAndTime
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The time the process was started."
    ::= { sysApplElmtRunEntry 5 }

sysApplElmtRunState OBJECT-TYPE
    SYNTAX      RunState
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The current state of the running process. The
        possible values are running(1), runnable(2) but waiting
         for a resource such as CPU, waiting(3) for an event,
        exiting(4), or other(5)."
    ::= { sysApplElmtRunEntry 6 }

sysApplElmtRunName OBJECT-TYPE
    SYNTAX      LongUtf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The full path and filename of the process.
        For example, '/opt/MYYpkg/bin/myyproc' would
        be returned for process 'myyproc' whose execution
        path is '/opt/MYYpkg/bin/myyproc'."
```

```
    ::= { sysApplElmtRunEntry 7 }

sysApplElmtRunParameters OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The starting parameters for the process."
::= { sysApplElmtRunEntry 8 }

sysApplElmtRunCPU OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of centi-seconds of the total system's
        CPU resources consumed by this process.
 Note that
        on a multi-processor system, this value may
        have been incremented by more than one centi-second
        in one centi-second of real (wall clock) time."
    ::= { sysApplElmtRunEntry 9 }

sysApplElmtRunMemory OBJECT-TYPE
    SYNTAX      Gauge32
    UNITS       "Kbytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The total amount of real system memory measured in
        Kbytes currently allocated to this process."

    ::= { sysApplElmtRunEntry 10 }

sysApplElmtRunNumFiles OBJECT-TYPE
    SYNTAX      Gauge32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The number of regular files currently open by the
        process.  Transport connections (sockets)
        should NOT be included in the calculation of
        this value, nor should operating system specific
        special file types."
    ::= { sysApplElmtRunEntry 11 }

sysApplElmtRunUser OBJECT-TYPE
```

```
    SYNTAX      Utf8String
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "The process owner's login name (e.g. root)."
   ::= { sysApplElmtRunEntry 12 }

-- sysApplElmtPastRunTable
-- The sysApplElmtPastRunTable maintains a history of
-- processes which have previously executed on
-- the host as part of an application. Upon termination
-- of a process, the entry representing the process is removed from
-- the sysApplElmtRunTable and a corresponding entry is created in
-- this table provided that the process was part of an
-- identifiable application.  If the process could not be associated

-- with an invoked application, no corresponding entry is created.
-- Hence, whereas the sysApplElmtRunTable contains an entry for
-- every process currently executing on the system, the
-- sysApplElmtPastRunTable only contains entries for processes
-- that previously executed as part of an invoked application.
--
-- Entries
remain in this table until they are aged out when
-- either the number of entries in the table reaches a
-- maximum as determined by sysApplElmtPastRunMaxRows, or
-- when an entry has aged to exceed a time limit as set by
-- sysApplElmtPastRunTblTimeLimit.  When aging out entries,
-- the oldest entry, as determined by the value of
-- sysApplElmtPastRunTimeEnded, will be removed first.
--
-- The table is indexed by sysApplInstallPkgIndex (from the
-- sysApplInstallPkgTable), sysApplElmtPastRunInvocID, and
-- sysApplElmtPastRunIndex to make it easy to locate all
-- previously executed processes of a particular invoked application
-- that has been installed on the system.


sysApplElmtPastRunTable OBJECT-TYPE
   SYNTAX      SEQUENCE OF SysApplElmtPastRunEntry
   MAX-ACCESS  not-accessible
   STATUS      current
   DESCRIPTION
      "The table describes the processes which have previously
      executed on the host system as part of an application.
       Each entry represents a process which has previously
      executed and is associated with the invoked application
      of which it was a part.  Because an invoked application
```

```
        may involve more than one executable, it is possible
        to have multiple entries in this table for
        each application invocation. Entries are added
        to this table when the corresponding process in the
        sysApplElmtRun Table terminates.

        Entries remain in this table until they are aged out when
        either the number of entries in the table reaches a
        maximum as determined by sysApplElmtPastRunMaxRows, or
        when an entry has aged to exceed a time limit as set by
        sysApplElmtPastRunTblTimeLimit.  When aging out entries,
        the oldest entry, as determined by the value of
        sysApplElmtPastRunTimeEnded, will be removed first.

        The table is indexed by sysApplInstallPkgIndex (from the
         sysApplInstallPkgTable), sysApplElmtPastRunInvocID,
        and sysApplElmtPastRunIndex to make it easy to locate all
        previously executed processes of a particular invoked
        application that has been installed on the system."
    ::= { sysApplRun 4 }

sysApplElmtPastRunEntry OBJECT-TYPE
    SYNTAX      SysApplElmtPastRunEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "The logical row describing a process which was
        previously executed on this host as part of an
        installed application.  The entry is basically copied
        from the sysApplElmtRunTable when the process
        terminates.  Hence, the entry's value for
        sysApplElmtPastRunIndex is the same as its value
        was for sysApplElmtRunIndex.  Note carefully: only those
        processes which could be associated with an
        identified application are included in this table."
    INDEX    { sysApplInstallPkgIndex,
sysApplElmtPastRunInvocID,
             sysApplElmtPastRunIndex }
    ::= { sysApplElmtPastRunTable   1 }

SysApplElmtPastRunEntry ::= SEQUENCE {
    sysApplElmtPastRunInvocID          Unsigned32,
    sysApplElmtPastRunIndex            Unsigned32,
    sysApplElmtPastRunInstallID        Unsigned32,
    sysApplElmtPastRunTimeStarted      DateAndTime,
    sysApplElmtPastRunTimeEnded        DateAndTime,
    sysApplElmtPastRunName             LongUtf8String,
    sysApplElmtPastRunParameters       Utf8String,
```

```
    sysApplElmtPastRunCPU             TimeTicks,
    sysApplElmtPastRunMemory          Unsigned32,
    sysApplElmtPastRunNumFiles        Unsigned32,
    sysApplElmtPastRunUser            Utf8String
}

sysApplElmtPastRunInvocID OBJECT-TYPE
    SYNTAX      Unsigned32 (1..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table, this value
        identifies
the invocation of an application of which
        the process represented by this entry was a part.
        The value of this object is the same value as the
        sysApplRunIndex for the corresponding application
        invocation in the sysApplRunTable.  If the invoked
        application as a whole has terminated, it will be the
        same as the sysApplPastRunIndex."
    ::= { sysApplElmtPastRunEntry 1 }

sysApplElmtPastRunIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "Part of the index for this table. An integer
        assigned by the agent equal to the corresponding
        sysApplElmtRunIndex which was removed from the
        sysApplElmtRunTable and moved to this table
        when the element terminated.

        Note: entries in this table are indexed by
        sysApplElmtPastRunInvocID, sysApplElmtPastRunIndex.
        The possibility
exists, though unlikely, of a
        collision occurring by a new entry which was run
        by the same invoked application (InvocID), and
        was assigned the same process identification number
        (ElmtRunIndex) as an element which was previously
        run by the same invoked application.

        Should this situation occur, the new entry replaces
        the old entry.

        See Section: 'Implementation Issues -
        sysApplElmtPastRunTable Entry Collisions' for the
```

conditions that would have to occur in order for a
collision to occur."
::= { sysApplElmtPastRunEntry 2 }

sysApplElmtPastRunInstallID OBJECT-TYPE
SYNTAX Unsigned32 (1..'ffffffff'h)
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The index into the installed element table. The
value of this object is the same value as the
sysApplInstallElmtIndex for the application element

of which this entry represents a previously executed
process."
::= { sysApplElmtPastRunEntry 3 }

sysApplElmtPastRunTimeStarted OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The time the process was started."
::= { sysApplElmtPastRunEntry 4 }

sysApplElmtPastRunTimeEnded OBJECT-TYPE
SYNTAX DateAndTime
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The time the process ended."
::= { sysApplElmtPastRunEntry 5 }

sysApplElmtPastRunName OBJECT-TYPE
SYNTAX LongUtf8String
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"The full path and filename of the process.
For example, '/opt/MYYpkg/bin/myyproc' would
be returned for process 'myyproc' whose execution
path was '/opt/MYYpkg/bin/myyproc'."
::= { sysApplElmtPastRunEntry 6 }

sysApplElmtPastRunParameters
OBJECT-TYPE
SYNTAX Utf8String

```
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The starting parameters for the process."
    ::= { sysApplElmtPastRunEntry 7 }

sysApplElmtPastRunCPU OBJECT-TYPE
    SYNTAX      TimeTicks
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The last known number of centi-seconds of the total
        system's CPU resources consumed by this process.
        Note that on a multi-processor system, this value may
        increment by more than one centi-second in one
        centi-second of real (wall clock) time."
    ::= { sysApplElmtPastRunEntry 8 }

sysApplElmtPastRunMemory OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    UNITS       "Kbytes"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The last known total amount of real system memory
        measured in Kbytes allocated to this process before it

     terminated."
    ::= { sysApplElmtPastRunEntry 9 }

sysApplElmtPastRunNumFiles OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The last known number of files open by the
        process before it terminated.  Transport
        connections (sockets) should NOT be included in
        the calculation of this value."
    ::= { sysApplElmtPastRunEntry 10 }

sysApplElmtPastRunUser OBJECT-TYPE
    SYNTAX      Utf8String
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The process owner's login name (e.g. root)."
    ::= { sysApplElmtPastRunEntry 11 }
```

```
-- Additional Scalar objects to control table sizes

sysApplPastRunMaxRows OBJECT-TYPE
   SYNTAX      Unsigned32 (0..'ffffffff'h)
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The maximum number of entries allowed in the
      sysApplPastRunTable.
Once the number of rows in
      the sysApplPastRunTable reaches this value, the
      management subsystem will remove the oldest entry
      in the table to make room for the new entry to be added.
      Entries will be removed on the basis of oldest
      sysApplPastRunTimeEnded value first.

      This object may be used to control the amount of
      system resources that can used for sysApplPastRunTable
      entries. A conforming implementation should attempt
      to support the default value, however, a lesser value
      may be necessary due to implementation-dependent issues
      and resource availability."
   DEFVAL      { 500 }
   ::= { sysApplRun 5 }

sysApplPastRunTableRemItems OBJECT-TYPE
   SYNTAX      Counter32
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      "A counter of the number of entries removed from
      the sysApplPastRunTable because of table size limitations

   as set in sysApplPastRunMaxRows.  This counter is the
      number of entries the management subsystem has had to
      remove in order to make room for new entries (so as not
      to exceed the limit set by sysApplPastRunMaxRows) since
      the last initialization of the management subsystem."
   ::= { sysApplRun 6 }

sysApplPastRunTblTimeLimit OBJECT-TYPE
   SYNTAX      Unsigned32 (0..'ffffffff'h)
   UNITS       "seconds"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
```

```
        "The maximum time in seconds which an entry in the
         sysApplPastRunTable may exist before it is removed.
         Any entry that is older than this value will be
         removed (aged out) from the table.

         Note that an entry may be aged out prior to reaching
         this time limit if it is the oldest entry in the
         table and must be removed to make space for a new
         entry so as to not exceed sysApplPastRunMaxRows."
      DEFVAL      { 7200 }
    ::= { sysApplRun 7 }

sysApplElemPastRunMaxRows OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        "The maximum number of entries allowed in the
        sysApplElmtPastRunTable.  Once the number of rows in
        the sysApplElmtPastRunTable reaches this value,
        the management subsystem will remove the oldest entry
        to make room for the new entry to be added.  Entries
        will be removed on the basis of oldest
        sysApplElmtPastRunTimeEnded value first.
        This object may be used to control the amount of
        system resources that can used for sysApplElemPastRunTable
        entries. A conforming implementation should attempt
        to support the default value, however, a lesser value
        may be necessary due to implementation-dependent issues
        and resource availability."
    DEFVAL
    { 500 }
    ::= { sysApplRun 8 }

sysApplElemPastRunTableRemItems OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "A counter of the number of entries removed from the
        sysApplElemPastRunTable because of table size limitations
        as set in sysApplElemPastRunMaxRows.  This counter is the
        number of entries the management subsystem has had to
        remove in order to make room for new entries (so as not
        to exceed the limit set by sysApplElemPastRunMaxRows) since
        the last initialization of the management subsystem."
    ::= { sysApplRun 9 }
```

```
sysApplElemPastRunTblTimeLimit OBJECT-TYPE
   SYNTAX      Unsigned32 (0..'ffffffff'h)
   UNITS       "seconds"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The maximum time in seconds which an entry in the
       sysApplElemPastRunTable may exist before it is removed.

      Any entry that is older than this value will be
       removed (aged out) from the table.

       Note that an entry may be aged out prior to reaching
       this time limit if it is the oldest entry in the
       table and must be removed to make space for a new
       entry so as to not exceed sysApplElemPastRunMaxRows."
   DEFVAL      { 7200 }
   ::= { sysApplRun 10 }

sysApplAgentPollInterval  OBJECT-TYPE
   SYNTAX      Unsigned32 (0..'ffffffff'h)
   UNITS       "seconds"
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "The minimum interval in seconds that the management
       subsystem implementing this MIB will poll the status
       of the managed resources. Because of the non-trivial
       effort involved in polling the managed resources,
       and because the method for obtaining the status of
       the managed resources is implementation-dependent,
       a conformant implementation
may chose a lower bound
       greater than 0.

       A value of 0 indicates that there is no delay
       in the passing of information from the managed
       resources to the agent."
   DEFVAL      { 60 }
   ::= { sysApplRun 11 }



-- sysApplMap Group
-- This group contains a table, the sysApplMapTable,
-- whose sole purpose is to provide a 'backwards'
-- mapping so that, given a known sysApplElmtRunIndex
-- (process identification number), the corresponding invoked
-- application (sysApplRunIndex), installed element
```

-- (sysApplInstallElmtIndex), and installed application
-- package (sysApplInstallPkgIndex) can be quickly determined.
--
-- The table will contain one entry for each process
-- currently running on the system.
--
-- A backwards mapping is extremely useful since the tables
-- in this MIB module are typically indexed with the
-- installed application package (sysApplInstallPkgIndex)
-- as the primary key, and on down
as required by the
-- specific table, with the process ID number (sysApplElmtRunIndex)
-- being the least significant key.
--
-- It is expected that management applications will use
-- this mapping table by doing a 'GetNext' operation with
-- the known process ID number (sysApplElmtRunIndex) as the partial
-- instance identifier. Assuming that there is an entry for
-- the process, the result should return a single columnar value,
-- the sysApplMapInstallPkgIndex, with the sysApplElmtRunIndex,
-- sysApplRunIndex, and sysApplInstallElmtIndex contained in the
-- instance identifier for the returned MIB object value.
--
-- NOTE: if the process can not be associated back to an
-- invoked application installed on the system, then the
-- value returned for the columnar value sysApplMapInstallPkgIndex
-- will be '0' and the instance portion of the object-identifier
-- will be the process ID number (sysApplElmtRunIndex) followed

-- by 0.0.

sysApplMapTable
OBJECT-TYPE
   SYNTAX   SEQUENCE OF SysApplMapEntry
   MAX-ACCESS not-accessible
   STATUS   current
   DESCRIPTION
      "The sole purpose of this table is to provide a
      'backwards' mapping so that, given a known
      sysApplElmtRunIndex (process identification number),
      the corresponding invoked application (sysApplRunIndex),
      installed element (sysApplInstallElmtIndex), and
      installed application package (sysApplInstallPkgIndex)
      can be quickly determined.

      This table will contain one entry for each process
      that is currently executing on the system.

```
        It is expected that management applications will use
        this mapping table by doing a 'GetNext' operation with
        the known process ID number (sysApplElmtRunIndex) as the
        partial instance identifier.  Assuming that there is an
        entry for the process, the result should return a single
        columnar
value, the sysApplMapInstallPkgIndex, with the
        sysApplElmtRunIndex, sysApplRunIndex, and
        sysApplInstallElmtIndex contained in the instance identifier
        for the returned MIB object value.

        NOTE: if the process can not be associated back to an
        invoked application installed on the system, then the
        value returned for the columnar value
        sysApplMapInstallPkgIndex will be '0' and the instance
        portion of the object-identifier will be the process ID
        number (sysApplElmtRunIndex) followed by 0.0."
    ::= { sysApplMap 1 }

sysApplMapEntry OBJECT-TYPE
    SYNTAX      SysApplMapEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        "A logical row representing a process currently running
        on the system.  This entry provides the index mapping from
        process identifier, back to the invoked application,
        installed element, and finally, the
installed application
        package.  The entry includes only one accessible columnar
        object, the sysApplMapInstallPkgIndex, but the
        invoked application and installed element can be
        determined from the instance identifier since they form
        part of the index clause."
    INDEX  { sysApplElmtRunIndex, sysApplElmtRunInvocID,
             sysApplMapInstallElmtIndex }
    ::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {
    sysApplMapInstallElmtIndex    Unsigned32,
    sysApplMapInstallPkgIndex     Unsigned32
}

sysApplMapInstallElmtIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
```

```
        "The index into the sysApplInstallElmtTable. The
        value of this object is the same value as the
        sysApplInstallElmtIndex for the application element
        of which this entry represents a running instance.
        If this
process cannot be associated to an installed
        executable, the value should be '0'."
    ::= { sysApplMapEntry 1 }

sysApplMapInstallPkgIndex OBJECT-TYPE
    SYNTAX      Unsigned32 (0..'ffffffff'h)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        "The value of this object identifies the installed
        software package for the application of which this
        process is a part.  Provided that the process's 'parent'
        application can be determined, the value of this object
        is the same value as the sysApplInstallPkgIndex for the
        entry in the sysApplInstallPkgTable that corresponds
        to the installed application of which this process
        is a part.

        If, however, the 'parent' application cannot be
        determined, (for example the process is not part
        of a particular installed application), the value
        for this object is then '0', signifying that this

 process cannot be related back to an application,
        and in turn, an installed software package."
    ::= { sysApplMapEntry 2 }


-- Conformance Macros
sysApplMIBCompliances  OBJECT IDENTIFIER ::= { sysApplConformance 1 }
sysApplMIBGroups       OBJECT IDENTIFIER ::= { sysApplConformance 2 }

sysApplMIBCompliance MODULE-COMPLIANCE
    STATUS  current
    DESCRIPTION
        "Describes the requirements for conformance to
        the System Application MIB"
    MODULE  -- this module
        MANDATORY-GROUPS { sysApplInstalledGroup,
                           sysApplRunGroup, sysApplMapGroup }
    ::= { sysApplMIBCompliances 1 }

sysApplInstalledGroup OBJECT-GROUP
```

```
    OBJECTS { sysApplInstallPkgManufacturer,
              sysApplInstallPkgProductName,
              sysApplInstallPkgVersion,
              sysApplInstallPkgSerialNumber,
              sysApplInstallPkgDate,
              sysApplInstallPkgLocation,
              sysApplInstallElmtName,
               sysApplInstallElmtType,
              sysApplInstallElmtDate,
              sysApplInstallElmtPath,
              sysApplInstallElmtSizeHigh,
              sysApplInstallElmtSizeLow,
              sysApplInstallElmtRole,
              sysApplInstallElmtModifyDate,
              sysApplInstallElmtCurSizeHigh,
              sysApplInstallElmtCurSizeLow }
    STATUS  current
    DESCRIPTION
       "The system application installed group contains
       information about applications and their constituent
       components which have been installed on the host system."
    ::= { sysApplMIBGroups 1 }

sysApplRunGroup OBJECT-GROUP
    OBJECTS { sysApplRunStarted,
              sysApplRunCurrentState,
              sysApplPastRunStarted,
              sysApplPastRunExitState,
              sysApplPastRunTimeEnded,
              sysApplElmtRunInstallID,
              sysApplElmtRunTimeStarted,
              sysApplElmtRunState,
               sysApplElmtRunName,
              sysApplElmtRunParameters,
              sysApplElmtRunCPU,
              sysApplElmtRunMemory,
              sysApplElmtRunNumFiles,
              sysApplElmtRunUser,
              sysApplElmtPastRunInstallID,
              sysApplElmtPastRunTimeStarted,
              sysApplElmtPastRunTimeEnded,
              sysApplElmtPastRunName,
              sysApplElmtPastRunParameters,
              sysApplElmtPastRunCPU,
              sysApplElmtPastRunMemory,
              sysApplElmtPastRunNumFiles,
              sysApplElmtPastRunUser,
              sysApplPastRunMaxRows,
```

```
            sysApplPastRunTableRemItems,
            sysApplPastRunTblTimeLimit,
            sysApplElemPastRunMaxRows,
            sysApplElemPastRunTableRemItems,
            sysApplElemPastRunTblTimeLimit,
            sysApplAgentPollInterval }
    STATUS  current
    DESCRIPTION
        "The system application
 run group contains information
        about applications and associated elements which have
        run or are currently running on the host system."
    ::= { sysApplMIBGroups 2 }

 sysApplMapGroup OBJECT-GROUP
    OBJECTS { sysApplMapInstallPkgIndex }
    STATUS  current
    DESCRIPTION
        "The Map Group contains a single table, sysApplMapTable,
        that provides a backwards mapping for determining the
        invoked application, installed element, and installed
        application package given a known process identification
        number."
 ::= { sysApplMIBGroups 3 }

 END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-MIB
No license file was found, but licenses were detected in source scan.

```
IANA-ITU-ALARM-TC-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY, mib-2
      FROM SNMPv2-SMI          -- [RFC2578]
  TEXTUAL-CONVENTION
      FROM SNMPv2-TC;          -- [RFC2579]




ianaItuAlarmNumbers MODULE-IDENTITY
    LAST-UPDATED "200409090000Z"  -- September 09, 2004
    ORGANIZATION "IANA"
    CONTACT-INFO
        "Postal:    Internet Assigned Numbers Authority
                    Internet Corporation for Assigned Names
                    and Numbers
```

4676 Admiralty Way, Suite 330
Marina del Rey, CA 90292-6601
USA

Tel: +1 310-823-9358
E-Mail: iana@iana.org"
DESCRIPTION
"The MIB module defines the ITU Alarm
textual convention for objects expected to require
regular extension.

Copyright (C) The Internet Society (2004). The
initial version of this MIB module
was published
in RFC 3877. For full legal notices see the RFC
itself. Supplementary information may be available on:
http://www.ietf.org/copyrights/ianamib.html"
REVISION "200409090000Z" -- September 09, 2004
DESCRIPTION
"Initial version, published as RFC 3877."
::= { mib-2 119 }

IANAItuProbableCause ::= TEXTUAL-CONVENTION
STATUS current
DESCRIPTION
"ITU-T probable cause values. Duplicate values defined in
X.733 are appended with X733 to ensure syntactic uniqueness.
Probable cause value 0 is reserved for special purposes.

The Internet Assigned Number Authority (IANA) is responsible
for the assignment of the enumerations in this TC.
IANAItuProbableCause value of 0 is reserved for special
purposes and MUST NOT be assigned.

Values of IANAItuProbableCause in the range 1 to 1023 are
reserved for causes that correspond to ITU-T probable cause.

All other requests for new causes will be handled on a
first-come, first served basis and will be assigned
enumeration values starting with 1025.

Request should come in the form of well-formed

SMI [RFC2578] for enumeration names that are unique and
sufficiently descriptive.

While some effort will be taken to ensure that new probable

causes do not conceptually duplicate existing probable causes it is acknowledged that the existence of conceptual duplicates in the starting probable cause list is an known industry reality.

To aid IANA in the administration of probable cause names and values, the OPS Area Director will appoint one or more experts to help review requests.

See http://www.iana.org"

REFERENCE

"ITU Recommendation M.3100, 'Generic Network Information Model', 1995

ITU Recommendation X.733, 'Information Technology - Open Systems Interconnection - System Management: Alarm Reporting Function', 1992

ITU Recommendation X.736, 'Information Technology - Open Systems Interconnection - System Management: Security Alarm Reporting Function', 1992"

SYNTAX INTEGER

{

-- The following probable causes were defined in M.3100

aIS (1),

callSetUpFailure (2),

degradedSignal (3),

farEndReceiverFailure (4),

framingError (5),

lossOfFrame (6),

lossOfPointer (7),

lossOfSignal (8),

payloadTypeMismatch (9),

transmissionError (10),

remoteAlarmInterface (11),

excessiveBER (12),

pathTraceMismatch (13),

unavailable (14),

signalLabelMismatch (15),

lossOfMultiFrame (16),

receiveFailure (17),

transmitFailure (18),

modulationFailure (19),

demodulationFailure (20),

broadcastChannelFailure (21),

```
        connectionEstablishmentError (22),
        invalidMessageReceived (23),
        localNodeTransmissionError (24),
        remoteNodeTransmissionError (25),
        routingFailure (26),

--Values 27-50 are reserved for communications alarm related
--probable causes
-- The following are used with equipment alarm.

        backplaneFailure (51),
        dataSetProblem  (52),
        equipmentIdentifierDuplication  (53),
        externalIFDeviceProblem  (54),
        lineCardProblem (55),
        multiplexerProblem  (56),
        nEIdentifierDuplication  (57),
        powerProblem  (58),
        processorProblem  (59),
        protectionPathFailure  (60),
        receiverFailure  (61),
        replaceableUnitMissing  (62),
        replaceableUnitTypeMismatch
 (63),
        synchronizationSourceMismatch  (64),
        terminalProblem   (65),
        timingProblem   (66),
        transmitterFailure  (67),
        trunkCardProblem  (68),
        replaceableUnitProblem  (69),
        realTimeClockFailure (70),
--An equipment alarm to be issued if the system detects that the
--real time clock has failed
        antennaFailure (71),
        batteryChargingFailure (72),
        diskFailure (73),
        frequencyHoppingFailure (74),
        iODeviceError (75),
        lossOfSynchronisation (76),
        lossOfRedundancy (77),
        powerSupplyFailure (78),
        signalQualityEvaluationFailure (79),
        tranceiverFailure (80),
        protectionMechanismFailure (81),
        protectingResourceFailure (82),
-- Values 83-100 are reserved for equipment alarm related probable
-- causes
-- The following are used with environmental alarm.
```

```
        airCompressorFailure  (101),


        airConditioningFailure  (102),
        airDryerFailure   (103),
        batteryDischarging  (104),
        batteryFailure   (105),
        commercialPowerFailure  (106),
        coolingFanFailure  (107),
        engineFailure  (108),
        fireDetectorFailure  (109),
        fuseFailure  (110),
        generatorFailure  (111),
        lowBatteryThreshold (112),
        pumpFailure  (113),
        rectifierFailure  (114),
        rectifierHighVoltage  (115),
        rectifierLowFVoltage  (116),
        ventilationsSystemFailure  (117),
        enclosureDoorOpen  (118),
        explosiveGas  (119),
        fire (120),
        flood   (121),
        highHumidity  (122),
        highTemperature  (123),
        highWind  (124),
        iceBuildUp  (125),
        intrusionDetection  (126),
        lowFuel
 (127),
        lowHumidity  (128),
        lowCablePressure  (129),
        lowTemperatue  (130),
        lowWater  (131),
        smoke  (132),
        toxicGas  (133),
        coolingSystemFailure (134),
        externalEquipmentFailure (135),
        externalPointFailure (136),
-- Values 137-150 are reserved for environmental alarm related
-- probable causes
-- The following are used with Processing error alarm.
        storageCapacityProblem (151),
        memoryMismatch  (152),
        corruptData  (153),
        outOfCPUCycles   (154),
        sfwrEnvironmentProblem  (155),
        sfwrDownloadFailure  (156),
```

```
        lossOfRealTimel (157),
--A processing error alarm to be issued after the system has
--reinitialised.  This will indicate
--to the management systems that the view they have of the managed


--system may no longer
--be valid.  Usage example: The managed
--system issues this alarm
 after a reinitialization with severity
--warning to inform the
--management system about the event.  No clearing notification will
--be sent.
        applicationSubsystemFailure (158),
        configurationOrCustomisationError (159),
        databaseInconsistency (160),
        fileError (161),
        outOfMemory (162),
        softwareError (163),
        timeoutExpired (164),
        underlayingResourceUnavailable (165),
        versionMismatch (166),
--Values 168-200 are reserved for processing error alarm related
-- probable causes.
        bandwidthReduced (201),
        congestion (202),
        excessiveErrorRate (203),
        excessiveResponseTime (204),
        excessiveRetransmissionRate (205),
        reducedLoggingCapability (206),
        systemResourcesOverload (207 ),
        -- The following were defined X.733
        adapterError (500),
        applicationSubsystemFailture
(501),
        bandwidthReducedX733 (502),
        callEstablishmentError (503),
        communicationsProtocolError (504),
        communicationsSubsystemFailure (505),
        configurationOrCustomizationError (506),
        congestionX733 (507),
        coruptData (508),
        cpuCyclesLimitExceeded (509),
        dataSetOrModemError (510),
        degradedSignalX733 (511),
        dteDceInterfaceError (512),
        enclosureDoorOpenX733 (513),
        equipmentMalfunction (514),
```

excessiveVibration (515),
fileErrorX733 (516),
fireDetected (517),
framingErrorX733 (518),
heatingVentCoolingSystemProblem (519),
humidityUnacceptable (520),
inputOutputDeviceError (521),
inputDeviceError (522),

lanError (523),
leakDetected (524),
localNodeTransmissionErrorX733 (525),

lossOfFrameX733 (526),
lossOfSignalX733 (527),
materialSupplyExhausted (528),
multiplexerProblemX733 (529),
outOfMemoryX733 (530),
ouputDeviceError (531),
performanceDegraded (532),
powerProblems (533),
pressureUnacceptable (534),
processorProblems (535),
pumpFailureX733 (536),
queueSizeExceeded (537),
receiveFailureX733 (538),
receiverFailureX733 (539),
remoteNodeTransmissionErrorX733 (540),
resourceAtOrNearingCapacity (541),
responseTimeExecessive (542),
retransmissionRateExcessive (543),
softwareErrorX733 (544),
softwareProgramAbnormallyTerminated (545),
softwareProgramError (546),
storageCapacityProblemX733 (547),
temperatureUnacceptable (548),
thresholdCrossed (549),
timingProblemX733
(550),
toxicLeakDetected (551),
transmitFailureX733 (552),
transmiterFailure (553),
underlyingResourceUnavailable (554),
versionMismatchX733 (555),
-- The following are defined in X.736
authenticationFailure (600),
breachOfConfidentiality (601),

```
            cableTamper (602),
            delayedInformation (603),
            denialOfService (604),
            duplicateInformation (605),
            informationMissing (606),
            informationModificationDetected (607),
            informationOutOfSequence (608),
            keyExpired (609),
            nonRepudiationFailure (610),
            outOfHoursActivity (611),
            outOfService (612),
            proceduralError (613),


            unauthorizedAccessAttempt (614),
            unexpectedInformation (615),

            other (1024)
            }

IANAItuEventType ::= TEXTUAL-CONVENTION
    STATUS current
    DESCRIPTION
          "The ITU event Type values.

          The Internet Assigned Number Authority (IANA) is
          responsible for the assignment of the enumerations
          in this TC.

          Request should  come in the form of well-formed
          SMI [RFC2578] for enumeration names that are unique
          and sufficiently descriptive.

          See http://www.iana.org "
    REFERENCE
          "ITU Recommendation X.736, 'Information Technology - Open
           Systems Interconnection - System Management: Security
           Alarm Reporting Function', 1992"
    SYNTAX        INTEGER
          {
          other (1),
          communicationsAlarm (2),
          qualityOfServiceAlarm (3),
          processingErrorAlarm (4),
          equipmentAlarm (5),
          environmentalAlarm (6),
          integrityViolation (7),
          operationalViolation (8),
```

```
        physicalViolation (9),
        securityServiceOrMechanismViolation
 (10),
        timeDomainViolation (11)
        }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IANA-ITU-ALARM-TC-MIB
No license file was found, but licenses were detected in source scan.

```
PKTC-IETF-MTA-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY,
  OBJECT-TYPE,
  OBJECT-IDENTITY,
  Unsigned32,
  Counter32,
  NOTIFICATION-TYPE,
  mib-2
      FROM SNMPv2-SMI                 -- [RFC2578]
  TEXTUAL-CONVENTION,
  RowStatus,
  TruthValue
      FROM SNMPv2-TC                  -- [RFC2579]
  OBJECT-GROUP,
  MODULE-COMPLIANCE,
  NOTIFICATION-GROUP
      FROM SNMPv2-CONF                -- [RFC2580]
  InetAddressType,
  InetAddress
      FROM INET-ADDRESS-MIB           -- [RFC4001]
  sysDescr
      FROM SNMPv2-MIB                 -- [RFC3418]
  SnmpAdminString
      FROM SNMP-FRAMEWORK-MIB         -- [RFC3411]
  docsDevSoftwareGroupV2
      FROM DOCS-CABLE-DEVICE-MIB      -- [RFC4639]
  DocsX509ASN1DEREncodedCertificate,
  docsBpi2CodeDownloadGroup
      FROM DOCS-IETF-BPI2-MIB         -- [RFC4131]
  LongUtf8String
       FROM SYSAPPL-MIB               -- [RFC2287]
  ifPhysAddress
      FROM IF-MIB;                    -- [RFC2863]
```

```
pktcIetfMtaMib MODULE-IDENTITY
LAST-UPDATED "200609180000Z" -- September 18, 2006
ORGANIZATION "IETF IP over Cable Data Network Working Group"
CONTACT-INFO
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  IETF IPCDN Working Group
     General Discussion: ipcdn@ietf.org
     Subscribe: http://www.ietf.org/mailman/listinfo/ipcdn
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     Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
      Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"

  DESCRIPTION
    "This MIB module defines the basic management object
     for the Multimedia Terminal Adapter devices compliant
     with PacketCable and IPCablecom requirements.

     Copyright (C) The IETF Trust (2006).  This version of
     this MIB module is part of RFC 4682; see the RFC itself for
     full legal notices."

  REVISION    "200609180000Z"   -- September 18, 2006

  DESCRIPTION
    "Initial version, published as RFC 4682."

::=  { mib-2 140 }

 -- Textual Conventions
```

```
PktcMtaDevProvEncryptAlg  ::= TEXTUAL-CONVENTION
  STATUS      current
  DESCRIPTION
     " This textual convention defines various types of the
       encryption algorithms used for the encryption of the MTA
       configuration file.  The description of the encryption
       algorithm for each enumerated value is as follows:

       'none(0)'           no encryption
 is used,
       'des64CbcMode(1)'    DES 64-bit key in CBC mode,



       't3Des192CbcMode(2)' 3DES 192-bit key in CBC mode,
       'aes128CbcMode(3)'   AES 128-bit key in CBC mode,
       'aes256CbcMode(4)'   AES 256-bit key in CBC mode."
  SYNTAX      INTEGER  {
            none            (0),
            des64CbcMode     (1),
            t3Des192CbcMode  (2),
            aes128CbcMode    (3),
            aes256CbcMode    (4)
  }

--====================================================================
-- The MTA MIB module only supports a single Provisioning Server.
--====================================================================

pktcMtaNotification OBJECT IDENTIFIER ::= { pktcIetfMtaMib 0 }
pktcMtaMibObjects  OBJECT IDENTIFIER ::= { pktcIetfMtaMib 1 }
pktcMtaDevBase     OBJECT IDENTIFIER ::= { pktcMtaMibObjects 1 }
pktcMtaDevServer   OBJECT IDENTIFIER ::= { pktcMtaMibObjects 2 }
pktcMtaDevSecurity OBJECT IDENTIFIER ::= { pktcMtaMibObjects 3
 }
pktcMtaDevErrors   OBJECT IDENTIFIER ::= { pktcMtaMibObjects 4 }
pktcMtaConformance  OBJECT IDENTIFIER ::= { pktcIetfMtaMib 2 }

--
-- The following pktcMtaDevBase group describes the base MTA objects
--

pktcMtaDevResetNow  OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object controls the MTA software reset.
```

Reading this object always returns 'false'. Setting this
object to 'true' causes the device to reset immediately
and the following actions to occur:

1. All connections (if present) are flushed locally.
2. All current actions such as ringing immediately terminate.
3. Requests for signaling notifications, such as notification based on digit map recognition, are flushed.
4. All endpoints are disabled.
5. The provisioning flow is started at step MTA-1.

If a value is written into an instance of
pktcMtaDevResetNow, the agent MUST NOT retain the supplied
value across MTA re-initializations or reboots."
REFERENCE

" PacketCable MTA Device Provisioning Specification."
::= { pktcMtaDevBase 1 }

pktcMtaDevSerialNumber OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object specifies the manufacturer's serial
number of this MTA. The value of this object MUST be
identical to the value specified in DHCP option 43,
sub-option 4. The list of sub-options for DHCP option
43 are defined in the PacketCable MTA Device
Provisioning Specification."
REFERENCE
" PacketCable MTA Device Provisioning Specification."
::= { pktcMtaDevBase 2 }

pktcMtaDevSwCurrentVers OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object identifies the software version currently
operating in the MTA.
The MTA MUST return a string descriptive of the current
software load. This object should use the syntax
defined by the individual vendor to identify the software
version. The data presented in this object MUST be

```
        identical to the software version information contained
        in the 'sysDescr' MIB object of the MTA.  The value of
        this object MUST be identical to the value specified in
        DHCP option 43, sub-option 6.  The list of sub-options for
        DHCP option 43 are defined in the PacketCable MTA Device
        Provisioning Specification."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification."

::= { pktcMtaDevBase 3 }

pktcMtaDevFQDN      OBJECT-TYPE
    SYNTAX      SnmpAdminString
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object contains the Fully Qualified
 Domain Name for
        this MTA.  The MTA FQDN is used to uniquely identify the
        device to the PacketCable back office elements."



    ::= { pktcMtaDevBase 4 }

pktcMtaDevEndPntCount     OBJECT-TYPE
    SYNTAX      Unsigned32 (1..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object contains the number of physical endpoints for
        this MTA."
    ::= { pktcMtaDevBase 5 }

pktcMtaDevEnabled     OBJECT-TYPE
    SYNTAX      TruthValue
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        " This object contains the MTA Admin Status of this device.
          If this object is set to 'true', the MTA is
          administratively enabled, and the MTA MUST be able to
          interact with the PacketCable entities, such as CMS,
          Provisioning Server, KDC, and other MTAs and MGs on all
          PacketCable interfaces.
          If this object is set to 'false', the MTA is
          administratively
```

```
 disabled, and the MTA MUST perform the
        following actions for all endpoints:
           - Shut down all media sessions, if present.
           - Shut down Network Control Signaling (NCS)
           signaling by following the Restart in
           Progress procedures in the PacketCable NCS
           specification.
        The MTA must execute all actions required to
        enable or disable the telephony services for all
        endpoints immediately upon receipt of an SNMP SET
        operation.

        Additionally, the MTA MUST maintain the SNMP Interface
        for management and also the SNMP Key management interface.
        Also, the MTA MUST NOT continue Kerberized key management
        with CMSes until this object is set to 'true'.
        Note: MTAs MUST renew the CMS Kerberos tickets according
        to the PacketCable Security or IPCablecom Specification.
        If a value is written into an instance
 of
        pktcMtaDevEnabled, the agent MUST NOT retain the supplied
        value across MTA re-initializations or reboots."
   REFERENCE
      " PacketCable MTA Device Provisioning Specification;
        PacketCable Security Specification;
        PacketCable Network-Based Call Signaling Protocol




        Specification."
   ::= { pktcMtaDevBase 6 }

 pktcMtaDevTypeIdentifier     OBJECT-TYPE
   SYNTAX      SnmpAdminString
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      " This object provides the MTA device type identifier.  The
        value of this object must be a copy of the DHCP option 60
        value exchanged between the MTA and the DHCP server.  The
        DHCP option 60 value contains an ASCII-encoded string
        identifying capabilities of the MTA as defined in the
        PacketCable MTA Device Provisioning Specification."
   REFERENCE
      " RFC 2132, DHCP Options and BOOTP Vendor Extensions;
        PacketCable
 MTA Device Provisioning Specification."
   ::= { pktcMtaDevBase 7 }
```

```
pktcMtaDevProvisioningState     OBJECT-TYPE
  SYNTAX      INTEGER {
              pass                    (1),
              inProgress              (2),
              failConfigFileError     (3),
              passWithWarnings        (4),
              passWithIncompleteParsing (5),
              failureInternalError    (6),
              failureOtherReason      (7)
  }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object indicates the completion state of the MTA
       device provisioning process.

       pass:
       If the configuration file could be parsed successfully
       and the MTA is able to reflect the same in its
       MIB, the MTA MUST return the value 'pass'.

       inProgress:
       If the MTA is in the process of being provisioned,
       the MTA MUST return the value 'inProgress'.

       failConfigFileError:
        If the configuration file was in error due to incorrect
       values in the mandatory parameters, the MTA MUST reject
       the configuration file, and the MTA MUST return the value



       'failConfigFileError'.

       passWithWarnings:
       If the configuration file had proper values for all the
       mandatory parameters but has errors in any of the optional
       parameters (this includes any vendor-specific Object
       Identifiers (OIDs) that are incorrect or not known
       to the MTA), the MTA MUST return the value
       'passWithWarnings'.

       passWithIncompleteParsing:
       If the configuration file is valid but the MTA cannot
       reflect the same in its configuration (for example, too
       many entries caused memory exhaustion), it must accept
       the CMS configuration entries related, and the MTA MUST
```

```
        return the value 'passWithIncompleteParsing'.

        failureInternalError:
         If the configuration file cannot be parsed due to an
        Internal error, the MTA MUST return the value
        'failureInternalError'.

        failureOtherReason:
        If the MTA cannot accept the configuration file for any
        other reason than the ones stated above, the MTA MUST
        return the value 'failureOtherReason'.

        When a final SNMP INFORM is sent as part of Step 25 of the
        MTA Provisioning process, this parameter is also included
        in the final INFORM message."
      REFERENCE
       " PacketCable MTA Device Provisioning Specification."
   ::= { pktcMtaDevBase 8 }

pktcMtaDevHttpAccess  OBJECT-TYPE
   SYNTAX      TruthValue
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      " This object indicates whether the HTTP protocol is
        supported for the MTA configuration file transfer."
   ::= { pktcMtaDevBase 9 }

pktcMtaDevProvisioningTimer  OBJECT-TYPE
   SYNTAX      Unsigned32
 (0..30)
   UNITS       "minutes"
   MAX-ACCESS  read-write
   STATUS      current



   DESCRIPTION
      " This object defines the time interval for the provisioning
        flow to complete.  The MTA MUST finish all provisioning
        operations starting from the moment when an MTA receives
        its DHCP ACK and ending at the moment when the MTA
        downloads its configuration file (e.g., MTA5 to MTA23)
        within the period of time set by this object.
        Failure to comply with this condition constitutes
        a provisioning flow failure.  If the object is set to 0,
        the MTA MUST ignore the provisioning timer condition.
        If a value is written into an instance of
```

```
        pktcMtaDevProvisioningTimer, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification."
    DEFVAL {10}
    ::=  {pktcMtaDevBase 10}

pktcMtaDevProvisioningCounter
   OBJECT-TYPE
     SYNTAX      Counter32
     MAX-ACCESS  read-only
     STATUS      current
     DESCRIPTION
          "This object counts the number of times the
          provisioning cycle has looped through step MTA-1."
     ::= {pktcMtaDevBase 11}

pktcMtaDevErrorOidsTable  OBJECT-TYPE
    SYNTAX SEQUENCE OF PktcMtaDevErrorOidsEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
       " This table contains the list of configuration errors or
         warnings the MTA encountered when parsing the
         configuration file it received from the Provisioning
         Server.
         For each error, an entry is created in this table,
         containing the configuration parameters the MTA rejected
         and the associated reason (e.g., wrong or unknown OID,
         inappropriate object values).  If the MTA
         did not report a provisioning state of 'pass(1)' in
         the pktcMtaDevProvisioningState object, this
  table MUST be
         populated for each error or warning instance.  Even if
         different parameters share the same error type (e.g., all
         realm name configuration parameters are invalid), all
         observed errors or warnings must be reported as
         different instances.  Errors are placed into the table in
         no particular order.  The table MUST be cleared each time




         the MTA reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification."
    ::= {pktcMtaDevBase 12 }

pktcMtaDevErrorOidsEntry  OBJECT-TYPE
```

```
  SYNTAX PktcMtaDevErrorOidsEntry
  MAX-ACCESS not-accessible
  STATUS current
  DESCRIPTION
     " This entry contains the necessary information the MTA MUST
       attempt to provide in case of configuration file errors or
       warnings."
  INDEX { pktcMtaDevErrorOidIndex }
         ::= {pktcMtaDevErrorOidsTable 1}

PktcMtaDevErrorOidsEntry ::= SEQUENCE {
  pktcMtaDevErrorOidIndex Unsigned32,
   pktcMtaDevErrorOid      SnmpAdminString,
  pktcMtaDevErrorValue    SnmpAdminString,
  pktcMtaDevErrorReason   SnmpAdminString
  }

pktcMtaDevErrorOidIndex  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..1024)
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     " This object is the index of the MTA configuration error
       table.  It is an integer value that starts at value '1'
       and is incremented for each encountered configuration
       file error or warning.

       The maximum number of errors or warnings that can be
       recorded in the pktcMtaDevErrorOidsTable is set to 1024 as
       a configuration file is usually validated by operators
       before deployment.  Given the possible number of
       configuration parameter assignments in the MTA
       configuration file, 1024 is perceived as a sufficient
       limit even with future extensions.

       If the number of the errors in the configuration
 file
       exceeds 1024, all errors beyond the 1024th one MUST
       be ignored and not be reflected in the
       pktcMtaDevErrorOidsTable."

  ::= {pktcMtaDevErrorOidsEntry 1}




pktcMtaDevErrorOid  OBJECT-TYPE
  SYNTAX      SnmpAdminString
```

```
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains a human readable representation
       (character string) of the OID corresponding to the
       configuration file parameter that caused the particular
       error.
       For example, if the value of the pktcMtaDevEnabled object
       in the configuration file caused an error, then this
       object instance will contain the human-readable string of
       '1.3.6.1.2.1.140.1.1.6.0'.
       If the MTA generated an error because it was not able
       to recognize a particular OID, then this object
       instance would contain an empty value (zero-length
       string).
       For example,
 if the value of an OID in the configuration
       file was interpreted by the MTA as being 1.2.3.4.5, and if
       the MTA was not able to recognize this OID as a valid one,
       this object instance will contain a zero-length string.

       If the number of errors in the configuration file exceeds
       1024, then for all subsequent errors, the
       pktcMtaDevErrorOid of the table's 1024th entry MUST
       contain a human-readable representation of the
       pktcMtaDevErrorsTooManyErrors object; i.e., the string
       '1.3.6.1.2.1.140.1.1.4.1.0'.
       Note that the syntax of this object is SnmpAdminString
       instead of OBJECT IDENTIFIER because the object value may
       not be a valid OID due to human or configuration tool
       encoding errors."

  ::= {pktcMtaDevErrorOidsEntry 2}

pktcMtaDevErrorValue  OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This
 object contains the value of the OID corresponding to
       the configuration file parameter that caused the error.
       If the MTA cannot recognize the OID of the
       configuration parameter causing the error, then this
       object instance contains the OID itself as interpreted
       by the MTA in human-readable representation.
       If the MTA can recognize the OID but generate an error due
       to a wrong value of the parameter, then the object
```

instance contains the erroneous value of the parameter as
read from the configuration file.
In both cases, the value of this object must be
represented in human-readable form as a character string.
For example, if the value of the pktcMtaDevEnabled object
in the configuration file was 3 (invalid value), then the
pktcMtaDevErrorValue object instance will contain the
human-readable (string) representation of value '3'.

Similarly, if the OID in the configuration file has been
interpreted by the MTA as being 1.2.3.4.5 and the MTA
cannot recognize this OID as a valid one, then this
pktcMtaDevErrorValue object instance will contain human
readable (string) representation of value '1.2.3.4.5'.

If the number of errors in the configuration file exceeds
1024, then for all subsequent errors, the
pktcMtaDevErrorValue of the table's 1024th entry MUST
contain a human-readable representation of the
pktcMtaDevErrorsTooManyErrors object; i.e., the string
'1.3.6.1.2.1.140.1.1.4.1.0'."

::= {pktcMtaDevErrorOidsEntry 3}

pktcMtaDevErrorReason OBJECT-TYPE
SYNTAX SnmpAdminString
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object indicates the reason for the error or warning,
as per the MTA's interpretation, in human-readable form.
For example:

'VALUE NOT IN RANGE', 'VALUE DOES NOT MATCH TYPE',
'UNSUPPORTED VALUE', 'LAST 4 BITS MUST BE SET TO ZERO',
'OUT OF MEMORY - CANNOT STORE'.
This object may also contain vendor specific errors for
private vendor OIDs and any proprietary error codes or
messages that can help diagnose configuration errors.

If the number of errors in the configuration file exceeds
1024, then for all subsequent errors, the
pktcMtaDevErrorReason of the table's 1024th entry MUST
contain a human-readable string indicating the reason
for an error; for example,

```
        'Too many errors in the configuration file'."
   ::= {pktcMtaDevErrorOidsEntry 4}

--
-- The following group describes server access and parameters used



-- for the initial MTA provisioning and bootstrapping phases.
--

pktcMtaDevDhcpServerAddressType  OBJECT-TYPE
   SYNTAX      InetAddressType
   MAX-ACCESS  read-only
   STATUS      current
    DESCRIPTION
       " This object contains the Internet address type for the
         PacketCable DHCP servers specified in MTA MIB."
   DEFVAL { ipv4 }
   ::= { pktcMtaDevServer 1}

pktcMtaDevServerDhcp1   OBJECT-TYPE
   SYNTAX      InetAddress
   MAX-ACCESS  read-only
   STATUS      current
   DESCRIPTION
      " This object contains the Internet Address of the primary
        DHCP server the MTA uses during provisioning.
        The type of this address is determined by the value of
        the pktcMtaDevDhcpServerAddressType object.
        When the latter has the value 'ipv4(1)', this object
        contains the IP address of the primary DHCP
        server.  It is provided by the CM to the MTA via the DHCP
        option code 122, sub-option 1, as defined in RFC 3495.

        The behavior of this object when the value of
        pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'
        is not presently specified, but it may be specified
         in future versions of this MIB module.
        If this object is of value
        0.0.0.0, the MTA MUST stop all provisioning
        attempts, as well as all other activities.
        If this object is of value 255.255.255.255, it means
        that there was no preference given for the primary
        DHCP server, and, the MTA must follow the logic of
        RFC2131, and the value of DHCP option 122,
        sub-option 2, must be ignored."
   REFERENCE
```

```
      " PacketCable MTA Device Provisioning Specification;
       RFC 2131, Dynamic Host Configuration Protocol;
       RFC 3495, DHCP Option for CableLabs Client Configuration."
  ::= { pktcMtaDevServer 2 }

pktcMtaDevServerDhcp2  OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  read-only



  STATUS      current
  DESCRIPTION
      " This object contains the Internet Address of the secondary
       DHCP server the MTA uses during provisioning.
       The type of this address
 is determined by the value of
       the pktcMtaDevDhcpServerAddressType object.
       When the latter has the value 'ipv4(1)', this object
       contains the IP address of the secondary DHCP
       server.  It is provided by the CM to the MTA via the DHCP
       option code 122, sub-option 2, as defined in RFC 3495.

       The behavior of this object when the value of
       pktcMtaDevDhcpServerAddressType is other than 'ipv4(1)'
       is not presently specified, but it may be specified
       in future versions of this MIB module.
       If there was no secondary DHCP server provided in DHCP
       Option 122, sub-option 2, this object must return the value
       0.0.0.0."
  REFERENCE
      " PacketCable MTA Device Provisioning Specification;
       RFC 3495, DHCP Option for CableLabs Client Configuration."
       ::= { pktcMtaDevServer 3 }

pktcMtaDevDnsServerAddressType  OBJECT-TYPE
  SYNTAX      InetAddressType
  MAX-ACCESS
 read-only
  STATUS      current
  DESCRIPTION
      " This object contains the Internet address type for the
       PacketCable DNS servers specified in MTA MIB."
  DEFVAL { ipv4 }
  ::= { pktcMtaDevServer 4}

pktcMtaDevServerDns1  OBJECT-TYPE
  SYNTAX      InetAddress
```

```
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object contains the IP Address of the primary
       DNS server to be used by the MTA.  The type of this address
       is determined by the value of the
       pktcMtaDevDnsServerAddressType object.
       When the latter has the value 'ipv4(1)', this object
       contains the IP address of the primary DNS server.
       As defined in RFC 2132, PacketCable-compliant MTAs receive
       the IP addresses of the DNS Servers in DHCP option 6.
       The behavior of this object when the value of
       pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'




       is not presently specified, but it
 may be specified
       in future versions of this MIB module.
       If a value is written into an instance of
       pktcMtaDevServerDns1, the agent MUST NOT retain the
       supplied value across MTA re-initializations or reboots."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification;
       RFC 2132, DHCP Options and BOOTP Vendor Extensions."
  ::= { pktcMtaDevServer 5 }

pktcMtaDevServerDns2  OBJECT-TYPE
  SYNTAX      InetAddress
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object contains the IP Address of the secondary
       DNS server to be used by the MTA.  The type of this address
       is determined by the value of the
       pktcMtaDevDnsServerAddressType object.
       When the latter has the value 'ipv4(1)', this object
       contains the IP address of the secondary DNS
       server.  As defined in RFC 2132, PacketCable-compliant MTAs
       receive the IP addresses of
 the DNS Servers in DHCP
       option 6.
       The behavior of this object when the value of
       pktcMtaDevDnsServerAddressType is other than 'ipv4(1)'
       is not presently specified, but it may be specified
       in future versions of this MIB module.
       If a value is written into an instance of
       pktcMtaDevServerDns2, the agent MUST NOT retain the
```

```
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        RFC 2132, DHCP Options and BOOTP Vendor Extensions."
    ::= { pktcMtaDevServer 6 }

pktcMtaDevTimeServerAddressType  OBJECT-TYPE
    SYNTAX      InetAddressType
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object contains the Internet address type for the
        PacketCable Time servers specified in MTA MIB."
    DEFVAL { ipv4 }
    ::= { pktcMtaDevServer 7}

pktcMtaDevTimeServer   OBJECT-TYPE
    SYNTAX      InetAddress



     MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       " This object contains the Internet Address of the Time
        Server used by an S-MTA for Time Synchronization.  The type
        of this address is determined by the value of the
        pktcMtaDevTimeServerAddressType object.
        When the latter has the value 'ipv4(1)', this object
        contains the IP address of the Time Server used for Time
        Synchronization.
        In the case of an S-MTA, this object must be
        populated with a value other than 0.0.0.0 as obtained
        from DHCP option 4.  The protocol by which the time of day
        MUST be retrieved is defined in RFC 868.
        In the case of an E-MTA, this object must contain a
        value of 0.0.0.0 if the address type is 'ipv4(1)' since
        an E-MTA does not use the Time Protocol for time
        synchronization (an E-MTA uses the time retrieved by the
        DOCSIS cable modem).
         The behavior of this object when the value of
        pktcMtaDevTimeServerAddressType is other than 'ipv4(1)'
        is not presently specified, but it may be specified in
        future versions of this MIB module.
        If a value is written into an instance of
        pktcMtaDevTimeServer, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
```

```
      " RFC 868, Time Protocol;
       RFC 2131, Dynamic Host Configuration Protocol;
       RFC 2132, DHCP Options and BOOTP Vendor Extensions."
  ::= { pktcMtaDevServer 8}

pktcMtaDevConfigFile  OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
      " This object specifies the MTA device configuration file
       information, including the access method, the server name,
       and the configuration file name.  The value of this object
       is the Uniform Resource Locator (URL)
 of the configuration
       file for TFTP or HTTP download.
       If this object value is a TFTP URL, it must be formatted
       as defined in RFC 3617.
       If this object value is an HTTP URL, it must be formatted
       as defined in RFC 2616.
       If the MTA SNMP Enrollment mechanism is used, then the MTA
       must download the file provided by the Provisioning Server



       during provisioning via an SNMP SET on this object.
       If the MTA SNMP Enrollment mechanism is not used, this
       object MUST contain the URL value corresponding to the
       'siaddr' and 'file' fields received in the DHCP ACK to
       locate the configuration file: the 'siaddr' and 'file'
       fields represent the host and file of the TFTP URL,
       respectively.  In this case, the MTA MUST return an
       'inconsistentValue' error in response to SNMP SET
       operations.
       The MTA MUST return a zero-length string if the server
        address (host part of the URL) is unknown.
       If a value is written into an instance of
       pktcMtaDevConfigFile, the agent MUST NOT retain the
       supplied value across MTA re-initializations or reboots."
  REFERENCE
      " PacketCable MTA Device Provisioning Specification;
       RFC 3617, URI Scheme for TFTP; RFC 2616, HTTP 1.1"
  ::= { pktcMtaDevServer 9 }

pktcMtaDevSnmpEntity  OBJECT-TYPE
  SYNTAX      SnmpAdminString
  MAX-ACCESS  read-only
  STATUS      current
```

```
  DESCRIPTION
     " This object contains the FQDN of the SNMP entity of the
       Provisioning Server.  When the MTA SNMP Enrollment
       Mechanism is used, this object represents the server that
       the MTA communicates with, that it receives the
       configuration file URL from, and that it sends the
       enrollment notification to.  The SNMP entity is also the
       destination entity for all the provisioning
       notifications.  It
 may be used for post-provisioning
       SNMP operations.  During the provisioning phase, this
       SNMP entity FQDN is supplied to the MTA via DHCP option
       122, sub-option 3, as defined in RFC 3495.  The MTA must
       resolve the FQDN value before its very first network
       interaction with the SNMP entity during the provisioning
       phase."

  REFERENCE
     " PacketCable MTA Device Provisioning Specification;
       RFC 3495, DHCP Option for CableLabs Client Configuration."
  ::= { pktcMtaDevServer 10 }

pktcMtaDevProvConfigHash  OBJECT-TYPE
  SYNTAX      OCTET STRING (SIZE(20))
  MAX-ACCESS  read-write
  STATUS      current



  DESCRIPTION
     " This object contains the hash value of the contents of the
       configuration file.
       The authentication algorithm is Secure Hashing Algorithm
       1 (SHA-1), and the length is 160 bits.  The hash
       calculation MUST follow the requirements defined in the

       PacketCable Security Specification.  When the MTA SNMP
       Enrollment mechanism is used, this hash value is
       calculated and sent to the MTA prior to sending the
       config file.  This object value is then provided by the
       Provisioning server via an SNMP SET operation.
       When the MTA SNMP Enrollment mechanism is not in use, the
       hash value is provided in the configuration file itself,
       and it is also calculated by the MTA.  This object value
       MUST represent the hash value calculated by the MTA.
       When the MTA SNMP Enrollment mechanism is not in use, the
       MTA must reject all SNMP SET operations on this object and
       return an 'inconsistentValue' error.
```

```
        If a value is written into an instance of
        pktcMtaDevProvConfigHash, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning
 Specification;
        PacketCable Security Specification."
    ::= { pktcMtaDevServer 11 }

pktcMtaDevProvConfigKey  OBJECT-TYPE
    SYNTAX      OCTET STRING (SIZE(32))
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       " This object contains the key used to encrypt/decrypt
        the configuration file when secure SNMPv3 provisioning
        is used.
        The value of this object is provided along with the
        configuration file information (pktcMtaDevConfigFile)
        and hash (pktcMtaDevProvConfigHash) by the Provisioning
        Server via SNMP SET once the configuration file has been
        created, as defined by the PacketCable Security
        specification.

        The privacy algorithm is defined by the
        pktcMtaDevProvConfigEncryptAlg MIB object.  The
        MTA requirements related to the privacy algorithm are
        defined in the PacketCable Security Specification.

        If this object is set at
 any other provisioning step than
        that allowed by the PacketCable MTA Device



        Provisioning Specification, the MTA SHOULD return
        an 'inconsistentValue' error.
        This object must not be used in non secure provisioning
        mode.  In non-secure provisioning modes, the MTA SHOULD
        return an 'inconsistentValue' in response to SNMP SET
        operations, and the MTA SHOULD return a zero-length
        string in response to SNMP GET operations.
        If a value is written into an instance of
        pktcMtaDevProvConfigKey, the agent MUST NOT retain the
        supplied value across MTA re-initializations or reboots."
    REFERENCE
       " PacketCable MTA Device Provisioning Specification;
        PacketCable Security Specification."
```

```
  ::= { pktcMtaDevServer 12 }

pktcMtaDevProvConfigEncryptAlg   OBJECT-TYPE
  SYNTAX      PktcMtaDevProvEncryptAlg
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION

  " This object defines the encryption algorithm used for
       privacy protection of the MTA Configuration File content."
  DEFVAL { des64CbcMode }
  ::= { pktcMtaDevServer 13 }

pktcMtaDevProvSolicitedKeyTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..180)
  UNITS       "seconds"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object defines a Kerberos Key Management timer on the
       MTA.  It is the time period during which the MTA saves the
       nonce and Server Kerberos Principal Identifier to match an
       AP Request and its associated AP Reply response from the
       Provisioning Server.
       After the timeout has been exceeded, the client discards
       this (nonce, Server Kerberos Principal Identifier) pair,
       after which it will no longer accept a matching AP Reply.
       This timer only applies when the Provisioning Server
       initiated key management for SNMPv3 (with a
       Wake
 Up message).
       If this object is set to a zero value, the MTA MUST return
       an 'inconsistentValue' in response to SNMP SET operations.
       This object should not be used in non-secure provisioning
       modes.  In non-secure provisioning modes, the MTA MUST
       return an 'inconsistentValue' in response to SNMP SET
       operations, and the MTA MUST return a zero value in




       response to SNMP GET operations.
       If a value is written into an instance of
       pktcMtaDevProvSolicitedKeyTimeout, the agent MUST NOT
       retain the supplied value across MTA re-initializations
       or reboots."
  DEFVAL { 3 }
  ::= { pktcMtaDevServer 14 }
```

```
--================================================================
--
-- Unsolicited key updates are retransmitted according to an
-- exponential back-off mechanism using two timers and a maximum
-- retry counter for AS replies.
-- The initial retransmission timer value is the nominal
 timer
-- value (pktcMtaDevProvUnsolicitedKeyNomTimeout).  The
-- retransmissions occur with an exponentially increasing interval
-- that caps at the maximum timeout value
-- (pktcMtaDevProvUnsolicitedKeyMaxTimeout).
-- Retransmissions stop when the maximum retry counter is reached
-- (pktcMtaDevProvUnsolicitedKeyMaxRetries).
-- For example, with values of 3 seconds for the nominal
-- timer, 100 seconds for the maximum timeout, and 8 retries max,
-- and with an exponential value of 2, this results in
-- retransmission intervals will be 3 s, 6 s, 12 s, 24 s, 48 s,
-- 96 s, 100 s, and 100 s;
-- retransmissions then stop because the maximum number of
-- retries (8) has been reached.
--
--================================================================
--
-- Timeouts for unsolicited key management updates are only
-- pertinent before the first SNMPv3 message is sent between the
-- MTA and the Provisioning Server and before the configuration
-- file is loaded.
--
--================================================================

pktcMtaDevProvUnsolicitedKeyMaxTimeout
 OBJECT-TYPE
  SYNTAX      Unsigned32 (0..600)
  UNITS       "seconds"
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object defines the timeout value that applies to
       an MTA-initiated AP-REQ/REP key management exchange with
       the Provisioning Server in SNMPv3 provisioning.
       It is the maximum timeout value, and it may not be exceeded
       in the exponential back-off algorithm.  If the DHCP option




       code 122, sub-option 5, is provided to the MTA, it
       overwrites this value.
       In non-secure provisioning modes, the MTA MUST
```

```
        return a zero value in response to SNMP GET
        operations."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL {600}
    ::= { pktcMtaDevServer 15 }

pktcMtaDevProvUnsolicitedKeyNomTimeout  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..600)
     UNITS       "seconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object defines the starting value of the timeout
        for the AP-REQ/REP Backoff and Retry mechanism
        with exponential timeout in SNMPv3 provisioning.
        If the DHCP option code 122, sub-option 5, is provided
        the MTA, it overwrites this value.
        In non-secure provisioning modes, the MTA MUST
        return a zero value in response to SNMP GET
        operations."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL {3}
    ::= { pktcMtaDevServer 16}

pktcMtaDevProvUnsolicitedKeyMaxRetries  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..32)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
       " This object contains a retry counter that applies to
        an MTA-initiated AP-REQ/REP key management exchange with
        the Provisioning Server in secure SNMPv3 provisioning.
        It is the maximum
 number of retries before the MTA stops
        attempting to establish a Security Association with
        Provisioning Server.
        If the DHCP option code 122, sub-option 5, is provided to
        the MTA, it overwrites this value.
        If this object is set to a zero value, the MTA MUST return
        an 'inconsistentValue' in response to SNMP SET operations.
        In non-secure provisioning modes, the MTA MUST
        return a zero value in response to SNMP GET
        operations."
    REFERENCE
```

```
      " PacketCable Security Specification."
  DEFVAL {8}
  ::= { pktcMtaDevServer 17 }

pktcMtaDevProvKerbRealmName  OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..255))
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      " This object contains the name of the associated
        provisioning Kerberos realm acquired during the MTA4
        provisioning step (DHCP Ack) for SNMPv3 provisioning.
        The uppercase ASCII representation
 of the associated
        Kerberos realm name MUST be used by both the Manager (SNMP
        entity) and the MTA.
        The Kerberos realm name for the Provisioning Server is
        supplied to the MTA via DHCP option code 122, sub-option 6,
        as defined in RFC 3495.  In secure SNMP provisioning mode,
        the value of the Kerberos realm name for the Provisioning
        Server supplied in the MTA configuration file must match
        the value supplied in the DHCP option code 122,
        sub-option 6.  Otherwise, the value of this object must
        contain the value supplied in DHCP Option 122,
        sub-option 6."
  REFERENCE
      " PacketCable MTA Device Provisioning Specification;
        RFC 3495, DHCP Option for CableLabs Client Configuration."
  ::= { pktcMtaDevServer 18 }

pktcMtaDevProvState  OBJECT-TYPE
  SYNTAX      INTEGER  {
              operational              (1),
              waitingForSnmpSetInfo
     (2),
              waitingForTftpAddrResponse (3),
              waitingForConfigFile       (4)
  }
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
      " This object defines the MTA provisioning state.
        If the state is:

          'operational(1)', the device has completed the loading
           and processing of the initialization parameters.
```

'waitingForSnmpSetInfo(2)', the device is waiting on
its configuration file download access information.
Note that this state is only reported when the MTA

SNMP enrollment mechanism is used.

'waitingForTftpAddrResponse(3)', the device has sent a
DNS request to resolve the server providing the
configuration file, and it is awaiting for a response.
Note that this state is only reported when the MTA
SNMP enrollment mechanism is used.

'waitingForConfigFile(4)', the device has
sent a
request via TFTP or HTTP for the download of its
configuration file, and it is awaiting for a response or
the file download is in progress."
REFERENCE
" PacketCable MTA Device Provisioning Specification,
PacketCable Security Specification."
::= { pktcMtaDevServer 19 }

--
-- The following object group describes the security objects.
--

pktcMtaDevManufacturerCertificate OBJECT-TYPE
SYNTAX DocsX509ASN1DEREncodedCertificate
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object contains the MTA Manufacturer Certificate.
The object value must be the ASN.1 DER encoding of the MTA
manufacturer's X.509 public key certificate. The MTA
Manufacturer Certificate is issued to each MTA
manufacturer and is installed into each MTA at the time of
manufacture or with a secure code download. The specific
requirements
related to this certificate are defined in
the PacketCable or IPCablecom Security specifications."
REFERENCE
" PacketCable Security Specification."

::= {pktcMtaDevSecurity 1}

pktcMtaDevCertificate OBJECT-TYPE

```
  SYNTAX      DocsX509ASN1DEREncodedCertificate
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the MTA Device Certificate.
       The object value must be the ASN.1 DER encoding of the
       MTA's X.509 public-key certificate issued by the
       manufacturer and installed into the MTA at the time of




       manufacture or with a secure code download.
       This certificate contains the MTA MAC address.  The
       specific requirements related to this certificate are
       defined in the PacketCable or IPCablecom Security
       specifications."
  REFERENCE
     " PacketCable Security Specification."
  ::= { pktcMtaDevSecurity 2 }

pktcMtaDevCorrelationId  OBJECT-TYPE
   SYNTAX      Unsigned32
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains a correlation ID, an arbitrary value
       generated by the MTA that will be exchanged as part of the
       device capability data to the Provisioning Application.
       This random value is used as an identifier to correlate
       related events in the MTA provisioning sequence.
       This value is intended for use only during the MTA
       initialization and configuration file download."
  REFERENCE
     " PacketCable MTA Device Provisioning Specification."
  ::= { pktcMtaDevSecurity 3 }

pktcMtaDevTelephonyRootCertificate  OBJECT-TYPE
  SYNTAX      DocsX509ASN1DEREncodedCertificate
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the telephony Service Provider Root
       certificate.  The object value is the ASN.1 DER encoding of
       the IP Telephony Service Provider
 Root X.509 public key
       certificate.  This certification is stored in the MTA
       non-volatile memory and can be updated with a secure code
       download.  This certificate is used to validate the initial
```

```
        AS Reply received by the MTA from the Key Distribution
        Center (KDC) during the MTA initialization.  The specific
        requirements related to this certificate are defined in
        the PacketCable or IPCablecom Security specifications."
    REFERENCE
       " PacketCable Security Specification."
    ::= { pktcMtaDevSecurity 4 }

--================================================================
--
--   Informative Procedures for Setting up Security Associations
--




--   A Security Association may be set up either via configuration or
--   via NCS signaling.
--
--   I.   Security association setup via configuration.
--
--   The realm must be configured first.  Associated with the realm
--   is a KDC.  The realm table (pktcMtaDevRealmTable)
 indicates
--   information about the realm (e.g., name, organization name) and
--   parameters associated with KDC communications (e.g., grace
--   periods, AS Request/AS Reply adaptive back-off parameters).
--
--   Once the realm is established, one or more CMS(es) may be
--   defined in the realm.  Associated with each CMS
--   entry in the pktcMtaDevCmsTable is an explicit reference
--   to a Realm via the realm name (pktcMtaDevCmsKerbRealmName),
--   the FQDN of the CMS, and parameters associated with IPSec
--   key management with the CMS (e.g., clock skew, AP Request/
--   AP Reply adaptive back-off parameters).
--
--   II.  Security association setup via NCS signaling.
--
--   The procedure of establishing the Security Associations
--   for NCS signaling is described in the PacketCable Security
--   specification.
--   It involves the analysis of the pktcNcsEndPntConfigTable row
--   for the corresponding endpoint number and the correlation of
--   the CMS FQDN from this row
 with the CMS Table and
--   consequently, with the Realm Table.  Both of these tables
--   are defined below.  The pktcNcsEndPntConfigTable is defined in
--   the IP over Cable Data Network (IPCDN)
--   NCS Signaling MIB [NCSSIGMIB].
```

```
--
--  III.  When the MTA receives wake-up or re-key messages from a
--  CMS, it performs key management based on the corresponding
--  entry in the CMS table.  If the matching CMS entry does not
--  exist, it must ignore the wake-up or re-key messages.
--
--================================================================
--================================================================
--
--  pktcMtaDevRealmTable
--
--  The pktcMtaDevRealmTable shows the KDC realms.  The table is
--  indexed with pktcMtaDevRealmIndex.  The Realm Table contains the
--  pktcMtaDevRealmName in conjunction with any server that needs
--  a Security Association with the MTA.  Uppercase must be used
--  to compare the pktcMtaDevRealmName content.
--



--================================================================

pktcMtaDevRealmAvailSlot
  OBJECT-TYPE
  SYNTAX      Unsigned32 (0..64)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the index number of the first
       available entry in the realm table (pktcMtaDevRealmTable).
       If all the entries in the realm table have been assigned,
       this object contains the value of zero.
       A management station should create new entries in the
       realm table, using the following procedure:

       First, issue a management protocol retrieval operation
       to determine the value of the first available index in the
       realm table (pktcMtaDevRealmAvailSlot).

       Second, issue a management protocol SET operation
       to create an instance of the pktcMtaDevRealmStatus
       object by setting its value to 'createAndWait(5)'.

       Third, if the SET operation succeeded, continue

  modifying the object instances corresponding to the newly
       created conceptual row, without fear of collision with
       other management stations.  When all necessary conceptual
```

```
        columns of the row are properly populated (via SET
        operations or default values), the management station may
        SET the pktcMtaDevRealmStatus object to 'active(1)'."
    ::= {  pktcMtaDevSecurity 5 }

pktcMtaDevRealmTable  OBJECT-TYPE
    SYNTAX      SEQUENCE OF PktcMtaDevRealmEntry
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
       " This object contains the realm table.
        The CMS table (pktcMtaDevCmsTable) and the realm table
        (pktcMtaDevRealmTable) are used for managing the MTA-CMS
        Security Associations.  The realm table defines the
        Kerberos realms for the Application Servers (CMSes and the
        Provisioning Server)."
    ::= {  pktcMtaDevSecurity 6 }

pktcMtaDevRealmEntry  OBJECT-TYPE
    SYNTAX
     PktcMtaDevRealmEntry
    MAX-ACCESS  not-accessible
    STATUS      current



    DESCRIPTION
       " This table entry object lists the MTA security parameters
        for a single Kerberos realm.  The conceptual rows MUST NOT
        persist across MTA reboots."
    INDEX { pktcMtaDevRealmIndex }
::= { pktcMtaDevRealmTable 1 }

PktcMtaDevRealmEntry ::= SEQUENCE {
    pktcMtaDevRealmIndex                  Unsigned32,
    pktcMtaDevRealmName                   SnmpAdminString,
    pktcMtaDevRealmPkinitGracePeriod      Unsigned32,
    pktcMtaDevRealmTgsGracePeriod         Unsigned32,
    pktcMtaDevRealmOrgName                LongUtf8String,
    pktcMtaDevRealmUnsolicitedKeyMaxTimeout Unsigned32,
    pktcMtaDevRealmUnsolicitedKeyNomTimeout Unsigned32,
    pktcMtaDevRealmUnsolicitedKeyMaxRetries Unsigned32,
    pktcMtaDevRealmStatus                 RowStatus
    }

pktcMtaDevRealmIndex  OBJECT-TYPE
    SYNTAX      Unsigned32 (1..64)
    MAX-ACCESS  not-accessible
```

```
  STATUS
    current
  DESCRIPTION
      " This object defines the realm table index."
  ::= { pktcMtaDevRealmEntry 1}

pktcMtaDevRealmName  OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..255))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      " This object identifies the Kerberos realm name in all
        capitals.  The MTA MUST prohibit the instantiation of any
        two rows with identical Kerberos realm names.  The MTA MUST
        also verify that any search operation involving Kerberos
        realm names is done using the uppercase ASCII
        representation of the characters."
  ::= { pktcMtaDevRealmEntry 2 }

pktcMtaDevRealmPkinitGracePeriod  OBJECT-TYPE
  SYNTAX      Unsigned32 (15..600)
  UNITS       "minutes"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
      " This object contains the PKINIT Grace Period.  For the
        purpose of key management with Application Servers (CMSes




        or
 the Provisioning Server), the MTA must utilize the
        PKINIT exchange to obtain Application Server tickets.  The
        MTA may utilize the PKINIT exchange to obtain Ticket
        Granting Tickets (TGTs), which are then used to obtain
        Application Server tickets in a TGS exchange.
        The PKINIT exchange occurs according to the current Ticket
        Expiration Time (TicketEXP) and on the PKINIT Grace Period
        (PKINITGP).  The MTA MUST initiate the PKINIT exchange at
        the time: TicketEXP - PKINITGP."
  REFERENCE
      " PacketCable Security Specification."
  DEFVAL { 15 }
  ::= { pktcMtaDevRealmEntry 3 }

pktcMtaDevRealmTgsGracePeriod  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..600)
  UNITS       "minutes"
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the Ticket Granting Server Grace
       Period (TGSGP).  The Ticket Granting Server (TGS)
       Request/Reply exchange may be performed
 by the MTA
       on demand whenever an Application Server ticket is
       needed to establish security parameters.  If the MTA
       possesses a ticket that corresponds to the Provisioning
       Server or a CMS that currently exists in the CMS table,
       the MTA MUST initiate the TGS Request/Reply exchange
       at the time: TicketEXP - TGSGP."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 10 }
  ::= { pktcMtaDevRealmEntry 4 }

pktcMtaDevRealmOrgName  OBJECT-TYPE
  SYNTAX      LongUtf8String
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the X.500 organization name attribute
       as defined in the subject name of the service provider
       certificate."
  REFERENCE
     " PacketCable Security Specification;
       RFCs 3280 and 4630, Internet X.509 Public Key
       Infrastructure Certificate and Certificate Revocation List
       (CRL) Profile"
   ::= { pktcMtaDevRealmEntry 5 }



pktcMtaDevRealmUnsolicitedKeyMaxTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..600)
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object specifies the maximum time the MTA will
       attempt to perform the exponential back-off algorithm.
       This timer only applies when the MTA initiated key
       management.  If the DHCP option code 122, sub-option 4, is
       provided to the MTA, it overwrites this value.
```

```
        Unsolicited key updates are retransmitted according to an
        exponential back-off mechanism using two timers and a
        maximum retry counter for AS replies.
        The initial retransmission timer value is the nominal
        timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
        retransmissions occur with an exponentially increasing
        interval that caps at the maximum timeout value
        (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
         Retransmissions stop when the maximum retry counter is
        reached (pktcMatDevRealmUnsolicitedMaxRetries).

        For example, with values of 3 seconds for the nominal
        timer, 20 seconds for the maximum timeout, and 5 retries
        max, retransmission intervals will be 3 s, 6 s,
        12 s, 20 s, and 20 s, and retransmissions then stop because
        the maximum number of retries has been reached."
    REFERENCE
       " PacketCable Security Specification."
    DEFVAL { 100 }
    ::= { pktcMtaDevRealmEntry 6 }

pktcMtaDevRealmUnsolicitedKeyNomTimeout  OBJECT-TYPE
    SYNTAX      Unsigned32 (100..600000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
       " This object specifies the initial timeout value
        for the AS-REQ/AS-REP exponential back-off and retry
        mechanism.  If the DHCP option code 122, sub-option 4, is
        provided to the MTA, it
 overwrites this value.
        This value should account for the average roundtrip
        time between the MTA and the KDC, as well as the
        processing delay on the KDC.




        Unsolicited key updates are retransmitted according to an
        exponential back-off mechanism using two timers and a
        maximum retry counter for AS replies.
        The initial retransmission timer value is the nominal
        timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
        retransmissions occur with an exponentially increasing
        interval that caps at the maximum timeout value
        (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
        Retransmissions stop when the maximum retry counter is
```

```
        reached (pktcMatDevRealmUnsolicitedMaxRetries).

        For example, with values of 3 seconds for the nominal
        timer, 20 seconds for the maximum timeout, and 5 retries
        max, in retransmission intervals will be 3 s, 6 s,

      12 s, 20 s, and 20 s; retransmissions then stop because
        the maximum number of retries has been reached."
    REFERENCE
      " PacketCable Security Specification."
    DEFVAL { 3000 }
    ::= { pktcMtaDevRealmEntry 7 }

pktcMtaDevRealmUnsolicitedKeyMaxRetries  OBJECT-TYPE
    SYNTAX      Unsigned32 (0..1024)
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
      " This object specifies the maximum number of retries the
        MTA attempts to obtain a ticket from the KDC.

        Unsolicited key updates are retransmitted according to an
        exponential back-off mechanism using two timers and a
        maximum retry counter for AS replies.
        The initial retransmission timer value is the nominal
        timer value (pktcMtaDevRealmUnsolicitedKeyNomTimeout).  The
        retransmissions occur with an exponentially increasing
        interval that caps at the maximum timeout value
        (pktcMtaDevRealmUnsolicitedKeyMaxTimeout).
         Retransmissions stop when the maximum retry counter is
        reached (pktcMatDevRealmUnsolicitedMaxRetries).

        For example, with values of 3 seconds for the nominal
        timer, 20 seconds for the maximum timeout, and 5 retries
        max, retransmission intervals will be 3 s, 6 s,
        12 s, 20 s, and 20 s; retransmissions then stop because
        the maximum number of retries has been reached."
    REFERENCE
      " PacketCable Security Specification."
    DEFVAL { 5 }



    ::= { pktcMtaDevRealmEntry 8 }

pktcMtaDevRealmStatus     OBJECT-TYPE
    SYNTAX      RowStatus
    MAX-ACCESS  read-create
```

```
  STATUS      current
  DESCRIPTION
      " This object defines the row status of this realm in the
        realm table (pktcMtaDevRealmTable).

        An entry in this table is not qualified for activation
        until the object instances of all corresponding columns
        have been initialized, either by default values, or
via
        explicit SET operations.  Until all object instances in
        this row are initialized, the status value for this realm
        must be 'notReady(3)'.
        In particular, two columnar objects must be explicitly
        SET: the realm name (pktcMtaDevRealmName) and the
        organization name (pktcMtaDevRealmOrgName).  Once these 2
        objects have been set and the row status is SET to
        'active(1)', the MTA MUST NOT allow any modification of
        these 2 object values.
        The value of this object has no effect on whether other
        columnar objects in this row can be modified."
  ::= { pktcMtaDevRealmEntry 9 }

--================================================================
--
--  The CMS table, pktcMtaDevCmsTable
--
-- The CMS table and the realm table (pktcMtaDevRealmTable) are used
-- for managing the MTA signaling security.  The CMS table defines
-- the CMSes the MTA is allowed to communicate with and contains
-- the
 parameters describing the SA establishment between the MTA
-- and a CMS.
-- The CMS table is indexed by pktcMtaDevCmsIndex.  The table
-- contains the CMS FQDN (pktcMtaDevCmsFQDN) and the associated
-- Kerberos realm name (pktcMtaDevCmsKerbRealmName) so that the MTA
-- can find the corresponding Kerberos realm name in the
-- pktcMtaDevRealmTable.
--
--================================================================

pktcMtaDevCmsAvailSlot   OBJECT-TYPE
  SYNTAX      Unsigned32 (0..128)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
```

" This object contains the index number of the first
available entry in the CMS table (pktcMtaDevCmsTable).
If all the entries in the CMS table have been assigned,
this object contains the value of zero.
A management station should create new entries in the
CMS table, using the following procedure:

First, issue a management protocol retrieval operation

to determine the value of the first available index in the
CMS table (pktcMtaDevCmsAvailSlot).

Second, issue a management protocol SET operation
to create an instance of the pktcMtaDevCmsStatus
object by setting its value to 'createAndWait(5)'.

Third, if the SET operation succeeded, continue
modifying the object instances corresponding to the newly
created conceptual row, without fear of collision with
other management stations. When all necessary conceptual
columns of the row are properly populated (via SET
operations or default values), the management station may
SET the pktcMtaDevCmsStatus object to 'active(1)'."
::= { pktcMtaDevSecurity 7 }

pktcMtaDevCmsTable OBJECT-TYPE
SYNTAX SEQUENCE OF PktcMtaDevCmsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" This object defines the CMS table.
The CMS table (pktcMtaDevCmsTable)
and the realm table
(pktcMtaDevRealmTable) are used for managing security
between the MTA and CMSes. Each CMS table entry defines
a CMS the managed MTA is allowed to communicate with
and contains security parameters for key management with
that CMS."
::= { pktcMtaDevSecurity 8 }

pktcMtaDevCmsEntry OBJECT-TYPE
SYNTAX PktcMtaDevCmsEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" This table entry object lists the MTA key management
parameters used when establishing Security Associations
with a CMS. The conceptual rows MUST NOT persist across

```
        MTA reboots."
    INDEX { pktcMtaDevCmsIndex }



    ::= { pktcMtaDevCmsTable 1 }

PktcMtaDevCmsEntry ::= SEQUENCE {
    pktcMtaDevCmsIndex                  Unsigned32,
    pktcMtaDevCmsFqdn                   SnmpAdminString,
    pktcMtaDevCmsKerbRealmName          SnmpAdminString,
    pktcMtaDevCmsMaxClockSkew
                Unsigned32,
    pktcMtaDevCmsSolicitedKeyTimeout    Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyMaxTimeout   Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyNomTimeout   Unsigned32,
    pktcMtaDevCmsUnsolicitedKeyMaxRetries   Unsigned32,
    pktcMtaDevCmsIpsecCtrl              TruthValue,
    pktcMtaDevCmsStatus                 RowStatus
    }

pktcMtaDevCmsIndex  OBJECT-TYPE
    SYNTAX      Unsigned32 (1..128)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " This object defines the CMS table index."
    ::= { pktcMtaDevCmsEntry 1 }

pktcMtaDevCmsFqdn  OBJECT-TYPE
    SYNTAX      SnmpAdminString (SIZE(1..255))
    MAX-ACCESS  read-create
    STATUS      current
    DESCRIPTION
        " This object specifies the CMS FQDN.  The MTA must
          prohibit the instantiation of any two rows with identical
          FQDNs.  The MTA must also verify that any search and/or
          comparison operation
   involving a CMS FQDN is case
          insensitive.  The MTA must resolve the CMS FQDN as required
           by the corresponding PacketCable Specifications."
    REFERENCE
        " PacketCable MTA Device Provisioning Specification;
          PacketCable Security Specification;
          PacketCable Network-Based Call Signaling Protocol
          Specification."
    ::= { pktcMtaDevCmsEntry 2 }
```

```
pktcMtaDevCmsKerbRealmName  OBJECT-TYPE
  SYNTAX      SnmpAdminString (SIZE(1..255))
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object identifies the Kerberos realm name in uppercase
       characters associated with the CMS defined in this




       conceptual row.  The object value is a reference
       point to the corresponding Kerberos realm name in the
       realm table (pktcMtaDevRealmTable)."
  ::= { pktcMtaDevCmsEntry 3 }

pktcMtaDevCmsMaxClockSkew    OBJECT-TYPE
  SYNTAX      Unsigned32 (1..1800)
  UNITS       "seconds"
   MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object specifies the maximum allowable clock skew
       between the MTA and the CMS defined in this row."
  DEFVAL { 300 }
  ::= { pktcMtaDevCmsEntry 4 }

pktcMtaDevCmsSolicitedKeyTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (100..30000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines a Kerberos Key Management timer on the
       MTA.  It is the time period during which the MTA saves the
       nonce and Server Kerberos Principal Identifier to match an
       AP Request and its associated AP Reply response from the
       CMS.  This timer only applies when the CMS initiated key
       management (with a Wake Up message or a Rekey message)."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 1000 }
  ::= { pktcMtaDevCmsEntry 5 }

--================================================================
--
--
 Unsolicited key updates are retransmitted according to an
--  exponential back-off mechanism using two timers and a maximum
```

```
-- retry counter for AS replies.
-- The initial retransmission timer value is the nominal timer
-- value (pktcMtaDevCmsUnsolicitedKeyNomTimeout).  The
-- retransmissions occur with an exponentially increasing interval
-- that caps at the maximum timeout value
-- (pktcMtaDevCmsUnsolicitedKeyMaxTimeout).
-- Retransmissions stop when the maximum retry counter is reached
-- (pktcMatDevCmsUnsolicitedMaxRetries).
-- For example, with values of 3 seconds for the nominal
-- timer, 20 seconds for the maximum timeout, and 5 retries max,
-- retransmission intervals will be 3 s, 6 s, 12 s,



-- 20 s, and 20 s; retransmissions then stop due to the
-- maximum number of retries reached.
--
--================================================================

pktcMtaDevCmsUnsolicitedKeyMaxTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (1..600)
   UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines the timeout value that only applies
       to an MTA-initiated key management exchange.  It is the
       maximum timeout, and it may not be exceeded in the
       exponential back-off algorithm."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 600 }
  ::= { pktcMtaDevCmsEntry 6 }

pktcMtaDevCmsUnsolicitedKeyNomTimeout  OBJECT-TYPE
  SYNTAX      Unsigned32 (100..30000)
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines the starting value of the timeout
       for an MTA-initiated key management.  It should account for
       the average roundtrip time between the MTA and the CMS and
       the processing time on the CMS."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 500 }
  ::= { pktcMtaDevCmsEntry 7 }
```

```
pktcMtaDevCmsUnsolicitedKeyMaxRetries
 OBJECT-TYPE
  SYNTAX      Unsigned32 (0..1024)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the maximum number of retries before
       the MTA stops attempting to establish a Security
       Association with the CMS."
  REFERENCE
     " PacketCable Security Specification."
  DEFVAL { 5 }
  ::= { pktcMtaDevCmsEntry 8 }



pktcMtaDevCmsIpsecCtrl     OBJECT-TYPE
  SYNTAX        TruthValue
  MAX-ACCESS    read-only
  STATUS        current
  DESCRIPTION
     " This object specifies the MTA IPSec control flag.
       If the object value is 'true', the MTA must use Kerberos
       Key Management and IPsec to communicate with this CMS.  If
       it is 'false', IPSec Signaling Security and Kerberos key
       management are disabled for this specific CMS."
  DEFVAL { true }
  ::= { pktcMtaDevCmsEntry 9 }

pktcMtaDevCmsStatus     OBJECT-TYPE
  SYNTAX
 RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object defines the row status associated with this
       particular CMS in the CMS table (pktcMtaDevCmsTable).

       An entry in this table is not qualified for activation
       until the object instances of all corresponding columns
       have been initialized, either by default values or via
       explicit SET operations.  Until all object instances in
       this row are initialized, the status value for this realm
       must be 'notReady(3)'.
       In particular, two columnar objects must be SET: the
       CMS FQDN (pktcMtaDevCmsFqdn) and the Kerberos realm name
```

(pktcMtaDevCmsKerbRealmName). Once these 2 objects have
been set and the row status is SET to 'active(1)', the MTA
MUST NOT allow any modification of these 2 object values.

The value of this object has no effect on
whether other columnar objects
in this row can be
modified."
::= { pktcMtaDevCmsEntry 10 }

pktcMtaDevResetKrbTickets OBJECT-TYPE
SYNTAX BITS {
invalidateProvOnReboot (0),
invalidateAllCmsOnReboot (1)
}
MAX-ACCESS read-write
STATUS current
DESCRIPTION
" This object defines a Kerberos Ticket Control Mask that
instructs the MTA to invalidate the specific Application

Server Kerberos ticket(s) that are stored locally in the
MTA NVRAM (non-volatile or persistent memory).
If the MTA does not store Kerberos tickets in NVRAM, it
MUST ignore setting of this object and MUST report a BITS
value of zero when the object is read.
If the MTA supports Kerberos tickets storage in NVRAM, the
object value is encoded as follows:
- Setting the invalidateProvOnReboot bit (bit 0) to 1
means that the MTA MUST invalidate
the Kerberos
Application Ticket(s) for the Provisioning Application
at the next MTA reboot if secure SNMP provisioning mode
is used. In non-secure provisioning modes, the MTA MUST
return an 'inconsistentValue' in response to SNMP SET
operations with a bit 0 set to 1.
- Setting the invalidateAllCmsOnReboot bit (bit 1) to 1
means that the MTA MUST invalidate the Kerberos
Application Ticket(s) for all CMSes currently assigned
to the MTA endpoints.
If a value is written into an instance of
pktcMtaDevResetKrbTickets, the agent MUST retain the
supplied value across an MTA re-initialization or
reboot."
REFERENCE
"PacketCable Security Specification."

```
  DEFVAL { {   } }
  ::= {  pktcMtaDevSecurity 9 }

--
-- The following group, pktcMtaDevErrors, defines an OID
-- corresponding to error conditions encountered during the MTA
-- provisioning.
--

pktcMtaDevErrorsTooManyErrors
 OBJECT-IDENTITY
  STATUS     current
  DESCRIPTION
     "This object defines the OID corresponding to the error
      condition when too many errors are encountered in the
      MTA configuration file during provisioning."
    ::= { pktcMtaDevErrors  1 }

pktcMtaDevProvisioningEnrollment  NOTIFICATION-TYPE
  OBJECTS {
         sysDescr,
         pktcMtaDevSwCurrentVers,
         pktcMtaDevTypeIdentifier,
         ifPhysAddress,
         pktcMtaDevCorrelationId




  }
  STATUS   current
  DESCRIPTION
     " This INFORM notification is issued by the MTA to initiate
       the PacketCable provisioning process when the MTA SNMP
       enrollment mechanism is used.
       It contains the system description, the current software
       version, the MTA device type identifier, the MTA MAC
       address (obtained in the MTA ifTable in the ifPhysAddress
       object that corresponds to the ifIndex
 1), and a
       correlation ID."
  ::= { pktcMtaNotification 1 }

pktcMtaDevProvisioningStatus  NOTIFICATION-TYPE
  OBJECTS {
         ifPhysAddress,
         pktcMtaDevCorrelationId,
         pktcMtaDevProvisioningState
  }
```

```
    STATUS      current
    DESCRIPTION
        " This INFORM notification may be issued by the MTA to
          confirm the completion of the PacketCable provisioning
          process, and to report its provisioning completion
          status.
          It contains the MTA MAC address (obtained in the MTA
          ifTable in the ifPhysAddress object that corresponds
          to the ifIndex 1), a correlation ID and the MTA
          provisioning state as defined in
          pktcMtaDevProvisioningState."
    ::= { pktcMtaNotification 2 }

--
-- Compliance Statements
--

pktcMtaCompliances  OBJECT IDENTIFIER ::= { pktcMtaConformance 1 }
pktcMtaGroups       OBJECT IDENTIFIER ::= { pktcMtaConformance 2 }

pktcMtaBasicCompliance MODULE-COMPLIANCE
     STATUS      current
    DESCRIPTION
        " The compliance statement for MTA devices that implement
          PacketCable or IPCablecom requirements.

          This compliance statement applies to MTA implementations
          that support PacketCable 1.0 or IPCablecom requirements,
          which are not IPv6-capable at the time of this




          RFC publication."

    MODULE  -- Unconditionally mandatory groups for MTAs

        MANDATORY-GROUPS {
            pktcMtaGroup,
            pktcMtaNotificationGroup
        }

        OBJECT  pktcMtaDevDhcpServerAddressType
            SYNTAX      InetAddressType { ipv4(1) }
            DESCRIPTION
                " Support for address types other than 'ipv4(1)'
            is not presently specified and therefore is not
            required.  It may be defined in future versions of
            this MIB module."
```

OBJECT pktcMtaDevDnsServerAddressType
SYNTAX InetAddressType { ipv4(1) }

DESCRIPTION
" Support for address types other than 'ipv4(1)'
is not presently specified and therefore is not
required. It may be defined in future versions of
this MIB module."

OBJECT pktcMtaDevTimeServerAddressType
SYNTAX InetAddressType { ipv4(1) }
DESCRIPTION
" Support for address types other than 'ipv4(1)'
is not presently specified and therefore is not
required. It may be defined in future versions of
this MIB module."

OBJECT pktcMtaDevServerDhcp1
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDhcp2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation
is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns1

SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in

future versions of this MIB module."

OBJECT pktcMtaDevTimeServer
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4 addresses. Other address types support may be defined in future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg
SYNTAX PktcMtaDevProvEncryptAlg
DESCRIPTION
"An implementation is only required to support values of none(0) and des64Cbcmode(1). An IV of zero is used to encrypt in des64Cbcmode, and the length of pktcMtaDevProvConfigKey is 64 bits, as defined in the PacketCable Security specification. Other encryption types may be defined in future versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName
SYNTAX LongUtf8String (SIZE (1..384))
DESCRIPTION
"The Organization Name field in X.509 certificates can contain up to 64 UTF-8 encoded characters, as defined in RFCs 3280 and 4630. Therefore, compliant devices are only required to support Organization Name values of up to 64 UTF-8 encoded characters. Given that RFCs 3280 and 4630 define the UTF-8 encoding, compliant devices must support a maximum size of 384 octets for pktcMtaDevRealmOrgName. The calculation of 384 octets comes from the RFC 3629 UTF-8 encoding definition whereby the UTF-8 encoded characters are encoded as sequences of 1 to 6 octets, assuming that code points as high as 0x7fffffff might be used. Subsequent versions of Unicode and ISO 10646 have limited the upper bound to 0x10ffff.

Consequently, the current version of UTF-8, defined in RFC 3629, does not require more than four octets to encode a valid code point."

::= { pktcMtaCompliances 1 }

pktcMtaGroup OBJECT-GROUP
OBJECTS {

pktcMtaDevResetNow,
pktcMtaDevSerialNumber,
pktcMtaDevSwCurrentVers,
pktcMtaDevFQDN,
pktcMtaDevEndPntCount,

pktcMtaDevEnabled,
pktcMtaDevProvisioningCounter,
pktcMtaDevErrorOid,
pktcMtaDevErrorValue,
pktcMtaDevErrorReason,
pktcMtaDevTypeIdentifier,
pktcMtaDevProvisioningState,
pktcMtaDevHttpAccess,
pktcMtaDevCertificate,
pktcMtaDevCorrelationId,
pktcMtaDevManufacturerCertificate,
pktcMtaDevDhcpServerAddressType,
pktcMtaDevDnsServerAddressType,
pktcMtaDevTimeServerAddressType,
pktcMtaDevProvConfigEncryptAlg,
pktcMtaDevServerDhcp1,
pktcMtaDevServerDhcp2,
pktcMtaDevServerDns1,
pktcMtaDevServerDns2,
pktcMtaDevTimeServer,
pktcMtaDevConfigFile,
pktcMtaDevSnmpEntity,
pktcMtaDevRealmPkinitGracePeriod,
pktcMtaDevRealmTgsGracePeriod,
pktcMtaDevRealmAvailSlot,
pktcMtaDevRealmName,
pktcMtaDevRealmOrgName,
pktcMtaDevRealmUnsolicitedKeyMaxTimeout,
pktcMtaDevRealmUnsolicitedKeyNomTimeout,
pktcMtaDevRealmUnsolicitedKeyMaxRetries,
pktcMtaDevRealmStatus,
pktcMtaDevCmsAvailSlot,
pktcMtaDevCmsFqdn,
pktcMtaDevCmsKerbRealmName,
pktcMtaDevCmsUnsolicitedKeyMaxTimeout,

pktcMtaDevCmsUnsolicitedKeyNomTimeout,
pktcMtaDevCmsUnsolicitedKeyMaxRetries,
pktcMtaDevCmsSolicitedKeyTimeout,
pktcMtaDevCmsMaxClockSkew,

```
        pktcMtaDevCmsIpsecCtrl,
        pktcMtaDevCmsStatus,
        pktcMtaDevResetKrbTickets,
        pktcMtaDevProvUnsolicitedKeyMaxTimeout,
        pktcMtaDevProvUnsolicitedKeyNomTimeout,
        pktcMtaDevProvUnsolicitedKeyMaxRetries,
        pktcMtaDevProvKerbRealmName,
        pktcMtaDevProvSolicitedKeyTimeout,
        pktcMtaDevProvConfigHash,
        pktcMtaDevProvConfigKey,
        pktcMtaDevProvState,
         pktcMtaDevProvisioningTimer,
        pktcMtaDevTelephonyRootCertificate
  }
  STATUS      current
  DESCRIPTION
     " A collection of objects for managing PacketCable or
       IPCablecom MTA implementations."
  ::= { pktcMtaGroups 1 }

pktcMtaNotificationGroup          NOTIFICATION-GROUP
  NOTIFICATIONS {
              pktcMtaDevProvisioningStatus,
              pktcMtaDevProvisioningEnrollment
  }
  STATUS      current
  DESCRIPTION
     " A collection of notifications dealing with the change of
       MTA provisioning status."
  ::= { pktcMtaGroups 2 }

pktcMtaBasicSmtaCompliance MODULE-COMPLIANCE
  STATUS      current
  DESCRIPTION
     " The compliance statement for S-MTA devices
       that implement PacketCable or IPCablecom requirements.

       This compliance statement applies to S-MTA implementations
       that support PacketCable or IPCablecom requirements,
       which are not IPv6-capable
 at the time of this
       RFC publication."

  MODULE -- Unconditionally Mandatory Groups for S-MTA devices
     MANDATORY-GROUPS {
```

```
        pktcMtaGroup,
        pktcMtaNotificationGroup
    }

    OBJECT  pktcMtaDevDhcpServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
            " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

    OBJECT  pktcMtaDevDnsServerAddressType
        SYNTAX      InetAddressType { ipv4(1) }
        DESCRIPTION
            " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

    OBJECT  pktcMtaDevTimeServerAddressType
        SYNTAX      InetAddressType { ipv4(1)
}
        DESCRIPTION
            " Support for address types other than 'ipv4(1)'
        is not presently specified and therefore is not
        required.  It may be defined in future versions of
        this MIB module."

    OBJECT    pktcMtaDevServerDhcp1
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required to support IPv4
        addresses.  Other address types support may be defined in
        future versions of this MIB module."

    OBJECT    pktcMtaDevServerDhcp2
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required to support IPv4
        addresses.  Other address types support may be defined in
        future versions of this MIB module."

    OBJECT    pktcMtaDevServerDns1
        SYNTAX  InetAddress (SIZE(4))
        DESCRIPTION
            "An implementation is only required
```

to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevServerDns2
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevTimeServer
SYNTAX InetAddress (SIZE(4))
DESCRIPTION
"An implementation is only required to support IPv4
addresses. Other address types support may be defined in
future versions of this MIB module."

OBJECT pktcMtaDevProvConfigEncryptAlg
SYNTAX PktcMtaDevProvEncryptAlg
DESCRIPTION
"An implementation is only required to support
values of none(0) and des64Cbcmode(1).
An IV of zero is used to encrypt
in des64Cbcmode, and
the length of pktcMtaDevProvConfigKey is 64 bits, as
defined in the PacketCable Security specification.
Other encryption types may be defined in future
versions of this MIB module."

OBJECT pktcMtaDevRealmOrgName
SYNTAX LongUtf8String (SIZE (1..384))
DESCRIPTION
"The Organization Name field in X.509 certificates
can contain up to 64 UTF-8 encoded characters, as
defined in RFCs 3280 and 4630. Therefore, compliant
devices are only required to support Organization
Name values of up to 64 UTF-8 encoded characters.
Given that RFCs 3280 and 4630 define the UTF-8 encoding,
compliant devices must support a maximum size of 384
octets for pktcMtaDevRealmOrgName. The calculation of
384 octets comes from the RFC 3629 UTF-8 encoding
definition whereby the UTF-8 encoded
characters
are encoded as sequences of 1 to 6 octets,

```
        assuming that code points as high as 0x7fffffff
        might be used.  Subsequent versions of Unicode and ISO
        10646 have limited the upper bound to 0x10ffff.
        Consequently, the current version of UTF-8, defined in
        RFC 3629 does not require more than four octets to
        encode a valid code point."
  MODULE DOCS-CABLE-DEVICE-MIB
    MANDATORY-GROUPS {



      docsDevSoftwareGroupV2
    }

  MODULE DOCS-IETF-BPI2-MIB
    MANDATORY-GROUPS {
      docsBpi2CodeDownloadGroup
    }

   ::= { pktcMtaCompliances 2 }

END
```

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-MTA-MIB
No license file was found, but licenses were detected in source scan.

```
PKTC-IETF-SIG-MIB DEFINITIONS ::= BEGIN

IMPORTS
  MODULE-IDENTITY,
  OBJECT-TYPE,
  Integer32,
  Unsigned32,
  mib-2
      FROM SNMPv2-SMI                -- [RFC2578]
  InetAddressType,
  InetAddress,
  InetPortNumber
      FROM INET-ADDRESS-MIB          -- [RFC4001]
  TEXTUAL-CONVENTION,
  RowStatus,
  TruthValue
      FROM SNMPv2-TC                 -- [RFC2579]



  OBJECT-GROUP,
```

```
  MODULE-COMPLIANCE
      FROM SNMPv2-CONF                -- [RFC2580]
  SnmpAdminString
      FROM SNMP-FRAMEWORK-MIB         -- [RFC3411]
  ifIndex
      FROM IF-MIB                     -- [RFC2863]
  Dscp
      FROM DIFFSERV-DSCP-TC;          -- [RFC3289]

pktcIetfSigMib MODULE-IDENTITY
  LAST-UPDATED    "200712180000Z" -- December 18, 2007
  ORGANIZATION    "IETF IPCDN Working Group"
  CONTACT-INFO
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      Archive: ftp://ftp.ietf.org/ietf-mail-archive/ipcdn
      Co-Chair: Jean-Francois Mule, jf.mule@cablelabs.com
      Co-Chair: Richard Woundy, Richard_Woundy@cable.comcast.com"

  DESCRIPTION
     "This MIB module supplies the basic management
      objects for the PacketCable and IPCablecom Signaling
     protocols.  This version of the MIB includes
     common signaling and Network Call Signaling
```

```
      (NCS)-related signaling objects.

      Copyright (C) The IETF Trust (2008).  This version of
      this MIB module is part of RFC 5098; see the RFC itself for
      full legal notices."
  REVISION             "200712180000Z"
  DESCRIPTION
    "Initial version, published as RFC 5098."

::=  { mib-2 169 }

-- Textual Conventions

TenthdBm ::= TEXTUAL-CONVENTION
  DISPLAY-HINT "d-1"
  STATUS       current
  DESCRIPTION
     "This TEXTUAL-CONVENTION represents power levels that are
      normally expressed in dBm.  Units are in tenths of a dBm;
      for example, -13.5 dBm will be represented as -135."
  SYNTAX       Integer32

PktcCodecType ::= TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
     " This TEXTUAL-CONVENTION defines various types of codecs

  that MAY be supported.  The description for each
       enumeration is listed below:

       Enumeration     Description
       other           a defined codec not in the enumeration
       unknown         a codec not defined by the PacketCable
                    Codec Specification
       g729            ITU-T Recommendation G.729
       reserved        for future use
       g729E           ITU-T Recommendation G.729E
       pcmu            Pulse Code Modulation u-law (PCMU)
       g726at32        ITU-T Recommendation G.726-32 (32 kbit/s)
       g728            ITU-T Recommendation G.728
       pcma            Pulse Code Modulation a-law (PCMA)
       g726at16        ITU-T Recommendation G.726-16 (16 kbit/s)
       g726at24        ITU-T Recommendation G.726-24 (24 kbit/s)
       g726at40        ITU-T Recommendation G.726-40 (40 kbit/s)
       ilbc            IETF Internet low-bit rate codec
```

bv16 Broadcom BroadVoice16

The list of codecs is consistent with the IETF
Real-Time Transport Protocol (RTP) Profile registry and

the RTP Map Parameters Table in PacketCable Audio/Video
Codecs Specification [PKT-SP-CODEC]. The literal codec
name for each codec is listed below:

Codec	Literal Codec Name
g729	G729
g729E	G729E
pcmu	PCMU
g726at32	G726-32
g728	G728
pcma	PCMA
g726at16	G726-16
g726at24	G726-24
g726at40	G726-40
ilbc	iLBC
bv16	BV16

The literal codec name is the second column of the table
with codec RTP Map Parameters. The Literal Codec Name Column
contains the codec name used in the local connection
options (LCO) of the NCS messages create connection

(CRCX)/modify connection (MDCX) and is also used to
identify the codec in the Call Management System (CMS)
Provisioning Specification. The RTP Map Parameter column of
the Table contains the string used in the media attribute
line (a=) of the session description protocol (SDP)
parameters in NCS messages."

```
SYNTAX INTEGER {
    other     (1),
    unknown   (2),
    g729      (3),
    reserved  (4),
    g729E     (5),
    pcmu      (6),
    g726at32  (7),
    g728      (8),
    pcma      (9),
    g726at16  (10),
    g726at24  (11),
    g726at40  (12),
```

```
            ilbc      (13),
            bv16      (14)
    }

PktcRingCadence   ::= TEXTUAL-CONVENTION
    STATUS        current
    DESCRIPTION
        "This object provides an encoding scheme for ring




        cadences, including repeatability
 characteristics.  All
        fields in this object MUST be encoded in network-byte
        order.

        The first three higher-order octets are reserved.  The
        octets that follow are used to encode a 'bit-string', with
        each bit corresponding to 50 milliseconds.  A bit value of
        '1' indicates the presence of a ring-tone, and a bit value
        of '0' indicates the absence of a ring-tone, for that
        duration (50 ms) (Note: A minimum number of octets
        required to encode the bit-string MUST be used).

        The first two of the reserved octets MUST indicate the
        length of the encoded cadence (in bits) and MUST range
        between 1 and 264.  (Note: The length in bits MUST also be
        consistent with the number of octets that encode the
        cadence).  The MTA MUST ignore any unused bits in the last
        octet, but MUST reflect the value as provided on
        subsequent SNMP GETs.

        The
 third of the reserved octets indicates 'repeatability'
        and MUST be either 0x80 or 0x00 -- the former value
        indicating 'non-repeatability', and the latter indicating
        'repeatability'.

        The MTA MUST reject attempts to set a value that violates
        any of the above requirements."


    SYNTAX  OCTET STRING (SIZE(4..36))


PktcSigType     ::= TEXTUAL-CONVENTION
    STATUS       current
    DESCRIPTION
```

```
      " This object lists the various types of signaling that may
       be supported:

       other(1) - set when signaling other than NCS is used
       ncs(2)   - Network Call Signaling is a derivation of MGCP
                  (Media Gateway Control Protocol) defined for
                   IPCablecom/PacketCable MTAs."
  SYNTAX INTEGER {
              other(1),
              ncs(2)
  }




DtmfCode::=TEXTUAL-CONVENTION
  STATUS       current
  DESCRIPTION
     "This TEXTUAL-CONVENTION represents the Dual-Tone
      Multi-Frequency (DTMF) Character used
      to indicate the start or end of the digit transition
      sequence used for caller id or Visual Message Waiting
      Indicator (VMWI).

      Note: The DTMF code '*' is indicated using 'dtmfcodeStar',
      and the DTMF code '#' is indicated using ' dtmfcodeHash'."
  SYNTAX       INTEGER {
              dtmfcode0(0),
              dtmfcode1(1),
              dtmfcode2(2),
              dtmfcode3(3),
              dtmfcode4(4),
              dtmfcode5(5),
              dtmfcode6(6),
              dtmfcode7(7),
              dtmfcode8(8),
              dtmfcode9(9),
              dtmfcodeStar(10),
              dtmfcodeHash(11),
              dtmfcodeA(12),
              dtmfcodeB(13),
              dtmfcodeC(14),
              dtmfcodeD(15)
}

PktcSubscriberSideSigProtocol::=TEXTUAL-CONVENTION
  STATUS  current
```

```
  DESCRIPTION
     "This TEXTUAL-CONVENTION
 represents the Signaling
      protocol being used for purposes such as caller id
      or VMWI.

      A value of fsk(1) indicates Frequency Shift Keying
      (FSK).
      A value of dtmf(2) indicates Dual-Tone Multi-Frequency
      (DTMF)."
      SYNTAX INTEGER {
           fsk(1),
           dtmf(2)
      }

pktcSigMibObjects OBJECT IDENTIFIER ::= { pktcIetfSigMib 1 }
pktcSigDevObjects OBJECT IDENTIFIER ::=




                          { pktcSigMibObjects 1 }
pktcSigEndPntConfigObjects OBJECT IDENTIFIER ::=
                          { pktcSigMibObjects 2 }
--
-- The codec table (pktcSigDevCodecTable) defines all combinations
-- of codecs supported by the Multimedia Terminal Adapter (MTA).
--
pktcSigDevCodecTable OBJECT-TYPE
  SYNTAX      SEQUENCE OF PktcSigDevCodecEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
      " This table describes the MTA-supported codec types.  An MTA
       MUST populate this table with all possible combinations of
       codecs it supports for simultaneous operation.  For example,
       an MTA with two endpoints may be designed with a particular
       Digital Signal Processing (DSP) and memory architecture that
       allows it to support the following fixed combinations of
       codecs for simultaneous operation:

       Codec Type     Maximum Number of Simultaneous Codecs
       PCMA                    3

       PCMA                    2
       PCMU                    1

       PCMA                    1
```

PCMU 2

PCMU 3

PCMA 1
G729 1

G729 2

PCMU 1
G729 1

Based on this example, the entries
in the codec table
would be:

pktcSigDev CodecComboIndex	pktcSigDev CodecType	pktcSigDev CodecMax
1	pcma	3
2	pcma	2
2	pcmu	1
3	pcma	1
3	pcmu	2
4	pcmu	3
5	pcma	1
5	g729	1
6	g729	2
7	pcmu	1
7	g729	1

An operator querying this table is able to determine all
possible codec combinations the MTA is capable of
simultaneously supporting.

This table MUST NOT include non-voice codecs."
::=
{ pktcSigDevObjects 1 }

```
pktcSigDevCodecEntry  OBJECT-TYPE
  SYNTAX      PktcSigDevCodecEntry
  MAX-ACCESS  not-accessible
  STATUS      current
  DESCRIPTION
     "Each entry represents the maximum number of active
      connections with a particular codec the MTA is capable of
```

```
        supporting.  Each row is indexed by a composite key
        consisting of a number enumerating the particular codec
        combination and the codec type."
    INDEX { pktcSigDevCodecComboIndex, pktcSigDevCodecType }
    ::= { pktcSigDevCodecTable 1 }

PktcSigDevCodecEntry  ::= SEQUENCE {
    pktcSigDevCodecComboIndex    Unsigned32,
    pktcSigDevCodecType     PktcCodecType,
    pktcSigDevCodecMax      Unsigned32
    }

pktcSigDevCodecComboIndex  OBJECT-TYPE
    SYNTAX      Unsigned32 (1..255)
    MAX-ACCESS  not-accessible
    STATUS      current
    DESCRIPTION
        " The index value that enumerates a particular codec
          combination in the pktcSigDevCodecTable."
    ::=
 { pktcSigDevCodecEntry 1 }

pktcSigDevCodecType  OBJECT-TYPE
    SYNTAX       PktcCodecType
    MAX-ACCESS   not-accessible
    STATUS       current



    DESCRIPTION
        " A codec type supported by this MTA."
    ::= { pktcSigDevCodecEntry 2 }

pktcSigDevCodecMax  OBJECT-TYPE
    SYNTAX      Unsigned32(1..255)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
        " The maximum number of simultaneous sessions of a
          particular codec that the MTA can support."
    ::= { pktcSigDevCodecEntry 3 }

--
-- These are the common signaling-related definitions that affect
-- the entire MTA device.
--

pktcSigDevEchoCancellation  OBJECT-TYPE
```

```
  SYNTAX      TruthValue
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object specifies if the device is capable of echo
       cancellation.  The MTA MUST set this MIB object to a
       value of true(1) if it is capable of echo
       cancellation, and a value of false(2) if not."
   ::= { pktcSigDevObjects 2 }

pktcSigDevSilenceSuppression  OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object specifies if the device is capable of
       silence suppression (as a result of Voice Activity
       Detection).  The MTA MUST set this MIB object to a
       value of true(1) if it is capable of silence
       suppression, and a value of false(2) if not."
::= { pktcSigDevObjects 3 }

pktcSigDevCidSigProtocol  OBJECT-TYPE
  SYNTAX      PktcSubscriberSideSigProtocol
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "This object is used to configure the subscriber-line
      protocol used for signaling on-hook caller id information.



      Different countries define different caller id signaling
      protocols to support caller identification.

      Setting this object at a value fsk(1) sets the subscriber
      line protocol to be
 Frequency Shift Keying (FSK).

      Setting this object at a value dtmf(2) sets the subscriber
      line protocol to be Dual-Tone Multi-Frequency (DTMF).

      The value of this MIB object MUST NOT persist across MTA
      reboots."
   REFERENCE
     "ETSI-EN-300-659-1 Specification"
   DEFVAL { fsk }
::= { pktcSigDevObjects 4 }
```

```
pktcSigDevR0Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 0 (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 5 }

pktcSigDevR1Cadence     OBJECT-TYPE
  SYNTAX      PktcRingCadence
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object specifies ring cadence 1 (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."

 ::= { pktcSigDevObjects 6 }

pktcSigDevR2Cadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS    read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence 2 (a user-defined
       field).




       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 7 }

pktcSigDevR3Cadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence 3 (a user-defined
       field).
```

```
        The value of this MIB object MUST NOT persist across MTA
        reboots."
    ::= { pktcSigDevObjects 8 }

pktcSigDevR4Cadence     OBJECT-TYPE
    SYNTAX       PktcRingCadence
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies ring cadence 4 (a user-defined
        field).

        The value of this MIB object MUST NOT persist across MTA
         reboots."
    ::= { pktcSigDevObjects 9 }

pktcSigDevR5Cadence     OBJECT-TYPE
    SYNTAX       PktcRingCadence
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies ring cadence 5 (a user-defined
        field).

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    ::= { pktcSigDevObjects 10 }

pktcSigDevR6Cadence     OBJECT-TYPE
    SYNTAX      PktcRingCadence
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
       " This object specifies ring cadence 6 (a user-defined
        field).




        The value of this MIB object MUST NOT persist across MTA
        reboots."
    ::= { pktcSigDevObjects 11 }

pktcSigDevR7Cadence     OBJECT-TYPE
    SYNTAX       PktcRingCadence
    MAX-ACCESS   read-write
    STATUS       current
```

```
  DESCRIPTION
     " This object specifies ring cadence 7 (a user-defined
       field).

       The value of this MIB object MUST
 NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 12 }

pktcSigDevRgCadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence rg (a user-defined
       field).

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 13 }

pktcSigDevRsCadence     OBJECT-TYPE
  SYNTAX       PktcRingCadence
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies ring cadence rs (a user-defined
       field).  The MTA MUST reject any attempt to make this object
       repeatable.

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  ::= { pktcSigDevObjects 14 }

pktcSigDefCallSigDscp  OBJECT-TYPE
  SYNTAX      Dscp  -- RFC 3289: DIFFSERV-DSCP-TC
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     "
 The default value used in the IP header for setting the
       Differentiated Services Code Point (DSCP) value for call




       signaling.

       The value of this MIB object MUST NOT persist across MTA
```

```
        reboots."
    DEFVAL { 0 }
    ::= { pktcSigDevObjects 15 }

pktcSigDefMediaStreamDscp  OBJECT-TYPE
    SYNTAX      Dscp  -- RFC 3289: DIFFSERV-DSCP-TC
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
        " This object contains the default value used in the IP
          header for setting the Differentiated Services Code Point
          (DSCP) value for media stream packets.  The MTA MUST NOT
          update this object with the value supplied by the CMS in
          the NCS messages (if present).  Any currently active
          connections are not affected by updates to this object.
          When the value of this object is updated by SNMP, the MTA
          MUST use the new value as a default starting only from
          new connections.

           The value of this MIB object MUST NOT persist across MTA
          reboots."
    DEFVAL { 0 }
    ::= { pktcSigDevObjects 16 }

--
-- pktcSigCapabilityTable - This table defines the valid signaling
-- types supported by this MTA.
--

pktcSigCapabilityTable    OBJECT-TYPE
    SYNTAX        SEQUENCE OF PktcSigCapabilityEntry
    MAX-ACCESS    not-accessible
    STATUS        current
    DESCRIPTION
        " This table describes the signaling types supported by this
          MTA."
    ::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry    OBJECT-TYPE
    SYNTAX        PktcSigCapabilityEntry
    MAX-ACCESS    not-accessible
    STATUS        current
    DESCRIPTION
        " Entries in pktcMtaDevSigCapabilityTable - list of
          supported signaling types, versions, and vendor extensions
```

```
        for this MTA.  Each entry in the list provides for one
        signaling type and version combination.  If the device
        supports multiple versions of the same signaling
 type, it
        will require multiple entries."
   INDEX { pktcSigCapabilityIndex }
   ::= { pktcSigCapabilityTable 1 }

PktcSigCapabilityEntry  ::= SEQUENCE {
   pktcSigCapabilityIndex           Unsigned32,
   pktcSigCapabilityType            PktcSigType,
   pktcSigCapabilityVersion          SnmpAdminString,
   pktcSigCapabilityVendorExt        SnmpAdminString
   }

pktcSigCapabilityIndex       OBJECT-TYPE
   SYNTAX        Unsigned32 (1..255)
   MAX-ACCESS    not-accessible
   STATUS        current
   DESCRIPTION
      " The index value that uniquely identifies an entry in the
        pktcSigCapabilityTable."
   ::= { pktcSigCapabilityEntry 1 }

pktcSigCapabilityType      OBJECT-TYPE
   SYNTAX        PktcSigType
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION
      " This object identifies the type of signaling used.  This
        value has to be associated with a single signaling
        version."
   ::= { pktcSigCapabilityEntry
 2 }

pktcSigCapabilityVersion      OBJECT-TYPE
   SYNTAX        SnmpAdminString
   MAX-ACCESS    read-only
   STATUS        current
   DESCRIPTION
      " Provides the version of the signaling type - reference
        pktcSigCapabilityType.  Examples would be 1.0 or 2.33 etc."
   ::= { pktcSigCapabilityEntry 3 }

pktcSigCapabilityVendorExt      OBJECT-TYPE
   SYNTAX        SnmpAdminString
   MAX-ACCESS    read-only
   STATUS        current
```

```
  DESCRIPTION
     " The vendor extension allows vendors to provide a list of




        additional capabilities.

        The syntax for this MIB object in ABNF ([RFC5234]) is
        specified to be zero or more occurrences of vendor
        extensions, as follows:

         pktcSigCapabilityVendorExt  = *(vendor-extension)
         vendor-extension = (ext symbol alphanum) DQUOTE ; DQUOTE
         ext      = DQUOTE %x58 DQUOTE
         symbol   = (DQUOTE %x2D DQUOTE)/(DQUOTE %x2D DQUOTE)
         alphanum = 1*6(ALPHA/DIGIT)

       "
  ::= { pktcSigCapabilityEntry 4 }

pktcSigDefNcsReceiveUdpPort  OBJECT-TYPE
  SYNTAX      InetPortNumber (1025..65535)
  MAX-ACCESS  read-only
  STATUS      current
  DESCRIPTION
     " This object contains the MTA User Datagram Protocol (UDP)
       receive port that is being used for NCS call signaling.
       This object should only be changed by the configuration
       file.

       Unless changed via configuration, this MIB object MUST
       reflect a value of '2427'."
  REFERENCE
     "PacketCable NCS Specification"
  ::= { pktcSigDevObjects 18 }

pktcSigPowerRingFrequency    OBJECT-TYPE
  SYNTAX      INTEGER {
              f20Hz(1),
              f25Hz(2),
              f33Point33Hz(3),
              f50Hz(4),
              f15Hz(5),
              f16Hz(6),
              f22Hz(7),
              f23Hz(8),
              f45Hz(9)
  }
```

```
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This object must only be provided via the configuration
       file during the provisioning process.  The power ring



       frequency is the frequency at which the sinusoidal voltage
       must travel down the twisted pair to make terminal
       equipment ring.  Different countries define different
       electrical characteristics to make terminal equipment
       ring.

       The f20Hz setting corresponds to a power ring frequency
       of 20 Hertz.  The f25Hz setting corresponds to a power ring
       frequency of 25 Hertz.  The f33Point33Hz setting
       corresponds to a power ring frequency of 33.33 Hertz.  The
       f50Hz setting corresponds to a power ring frequency of 50
       Hertz.  The f15Hz setting corresponds to a power ring
       frequency of 15 Hertz.  The f16Hz setting corresponds to a
       power ring frequency of 16 Hertz.  The f22Hz setting
       corresponds to a power ring frequency of
 22 Hertz.  The
       f23Hz setting corresponds to a power ring frequency of 23
       Hertz.  The f45Hz setting corresponds to a power ring
       frequency of 45 Hertz."
  REFERENCE
       "ETSI-EN-300-001"
  ::= { pktcSigDevObjects 19 }

pktcSigPulseSignalTable    OBJECT-TYPE
  SYNTAX       SEQUENCE OF PktcSigPulseSignalEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     " The Pulse signal table defines the pulse signal operation.
       There are nine types of international pulse signals,
       with each signal having a set of provisionable parameters.
       The values of the MIB objects in this table take effect
       only if these parameters are not defined via signaling, in
       which case, the latter determines the values of the
       parameters.  The MIB objects in this table do not persist
       across MTA reboots."
  REFERENCE
     "ETSI-TS-101-909-4 Specification"
  ::= { pktcSigDevObjects
```

```
 20 }

pktcSigPulseSignalEntry    OBJECT-TYPE
  SYNTAX       PktcSigPulseSignalEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     " This object defines the set of parameters associated with
       each particular value of pktcSigPulseSignalType.  Each
       entry in the pktcSigPulseSignalTable is indexed by the
       pktcSigPulseSignalType object.



       The conceptual rows MUST NOT persist across MTA reboots."
  INDEX { pktcSigPulseSignalType }
  ::= { pktcSigPulseSignalTable 1 }

PktcSigPulseSignalEntry ::= SEQUENCE {
     pktcSigPulseSignalType             INTEGER,
     pktcSigPulseSignalFrequency        INTEGER,
     pktcSigPulseSignalDbLevel          TenthdBm,
     pktcSigPulseSignalDuration         Unsigned32,
     pktcSigPulseSignalPulseInterval    Unsigned32,
     pktcSigPulseSignalRepeatCount      Unsigned32
}

pktcSigPulseSignalType    OBJECT-TYPE
  SYNTAX       INTEGER
               {
                  initialRing(1),
                  pulseLoopClose(2),
                  pulseLoopOpen(3),
                  enableMeterPulse(4),
                  meterPulseBurst(5),
                  pulseNoBattery(6),
                  pulseNormalPolarity(7),
                  pulseReducedBattery(8),
                  pulseReversePolarity(9)
               }
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     "There are nine types of international pulse signals.  These
      signals are defined as follows:
      initial ring
      pulse loop close
      pulse loop open
```

```
        enable meter pulse
        meter pulse burst
        pulse no battery
        pulse normal polarity
        pulse reduced battery
        pulse reverse polarity"
    REFERENCE
       "ETSI-EN-300-324-1 Specification"

    ::= { pktcSigPulseSignalEntry 1 }

pktcSigPulseSignalFrequency    OBJECT-TYPE
    SYNTAX       INTEGER {

          twentyfive(1),



              twelvethousand(2),
              sixteenthousand(3)
    }
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object is only applicable to the initialRing,
        enableMeterPulse, and meterPulseBurst signal types.  This
        object identifies the frequency of the generated signal.
        The following table defines the default values for this
        object depending on signal type:

        pktcSigPulseSignalType     Default
        initialRing              25
        enableMeterPulse          16000
        meterPulseBurst           16000

        The value of twentyfive MUST only be used for the
        initialRing signal type.  The values of twelvethousand and
        sixteenthousand MUST only be used for enableMeterPulse and
        meterPulseBurst signal types.  An attempt to set this
        object while the value of pktcSigPulseSignalType is not
        initialRing,
 enableMeterPulse, or meterPulseBurst will
        result in an 'inconsistentValue' error."
    REFERENCE
       "ETSI-EN-300-001 Specification"
        ::= { pktcSigPulseSignalEntry 2}

pktcSigPulseSignalDbLevel    OBJECT-TYPE
```

```
  SYNTAX      TenthdBm (-350..0)
  UNITS       "1/10 of a dBm"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object is only applicable to the enableMeterPulse and
       meterPulseBurst signal types.  This is the decibel level
       for each frequency at which tones could be generated at
       the a and b terminals (TE connection point).  An attempt to
       set this object while the value of pktcSigPulseSignalType
       is not enableMeterPulse or meterPulseBurst will result in
       an 'inconsistentValue' error."
  REFERENCE
     "ETSI-EN-300-001 Specification"

  DEFVAL { -135 }
  ::={pktcSigPulseSignalEntry 3 }

pktcSigPulseSignalDuration    OBJECT-TYPE



  SYNTAX      Unsigned32
(0..5000)
  UNITS       "Milliseconds"
  MAX-ACCESS  read-write
  STATUS      current
  DESCRIPTION
     " This object specifies the pulse duration for each
       signal type.  In addition, the MTA must accept the values
       in the incremental steps specific for each signal type.
       The following table defines the default values and the
       incremental steps for this object depending on the signal
       type:

       pktcSigPulseSignaltype  Default (ms)   Increment (ms)
       initialRing               200           50
       pulseLoopClose            200           10
       pulseLoopOpen             200           10
       enableMeterPulse          150           10
       meterPulseBurst           150           10
       pulseNoBattery            200           10
       pulseNormalPolarity       200           10
       pulseReducedBattery       200           10
       pulseReversePolarity
      200           10

       An attempt to set this object to a value that does not
```

```
        fall on one of the increment boundaries, or on the wrong
        increment boundary for the specific signal type, will
        result in an 'inconsistentValue' error."
    REFERENCE
       "ETSI-EN-300-324-1 Specification"
       ::= {pktcSigPulseSignalEntry 4 }

pktcSigPulseSignalPulseInterval     OBJECT-TYPE
    SYNTAX       Unsigned32 (0..5000)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies the repeat interval, or the period,
        for each signal type.  In addition, the MTA must accept
        the values in the incremental steps specific for each
        signal type.  The following table defines the default
        values and the incremental steps for this object, depending
        on the signal type:

        pktcSigPulseSignaltype  Default (ms)   Increment (ms)
         initialRing               200            50
        pulseLoopClose             1000           10
        pulseLoopOpen              1000           10



        enableMeterPulse           1000           10
        meterPulseBurst            1000           10
        pulseNoBattery             1000           10
        pulseNormalPolarity        1000           10
        pulseReducedBattery        1000           10
        pulseReversePolarity       1000           10

        An attempt to set this object to a value that does not
        fall on one of the increment boundaries, or on the wrong
        increment boundary for the specific signal type, will
        result in an 'inconsistentValue' error."
    REFERENCE
       "ETSI-EN-300-324-1 Specification"
       ::= { pktcSigPulseSignalEntry 5}

pktcSigPulseSignalRepeatCount    OBJECT-TYPE
    SYNTAX       Unsigned32 (1..50)
    MAX-ACCESS   read-write
    STATUS       current
```

```
DESCRIPTION
    " This object specifies how many times to repeat a pulse.
      This object is not used by the enableMeterPulse signal
      type, and in that case, the value is irrelevant.  The
      following table defines the default values and the valid
      ranges for this object, depending on the signal type:

      pktcSigPulseSignaltype  Default   Range

      initialRing             1       1-5
      pulseLoopClose          1       1-50
      pulseLoopOpen           1       1-50
      enableMeterPulse      (any value)(but not used)
      meterPulseBurst         1       1-50
      pulseNoBattery          1       1-50
      pulseNormalPolarity     1       1-50
      pulseReducedBattery     1       1-50
      pulseReversePolarity    1       1-50

      An attempt to set this object to a value that does not
      fall within the range for the specific
      signal type will result in an
'inconsistentValue' error."
  ::={ pktcSigPulseSignalEntry 6 }

pktcSigDevCidMode    OBJECT-TYPE
  SYNTAX       INTEGER {
            duringRingingETS(1),
            dtAsETS(2),
            rpAsETS(3),



            lrAsETS(4),
            lrETS(5)
            }
  MAX-ACCESS read-write
  STATUS current
  DESCRIPTION
    " For on-hook caller id, pktcSigDevCidMode selects the method
      for representing and signaling caller identification.  For
      the duringRingingETS method, the Frequency Shift Keying
      (FSK) or the Dual-Tone Multi-Frequency (DTMF) containing
      the caller identification information is sent between the
      first and second ring pattern.

      For the dtAsETS,rpAsETS, lrAsETS and lrETS
      methods, the FSK or DTMF containing the caller id
```

information is sent before the first ring pattern.

For the dtAsETS method, the FSK or DTMF is sent after the Dual
Tone Alert Signal. For the rpAsETS method, the FSK or DTMF is sent after a Ring Pulse.

For the lrAsETS method, the Line Reversal occurs first, then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
  DEFVAL { rpAsETS}
  ::= {pktcSigDevObjects 21 }

pktcSigDevCidAfterRing     OBJECT-TYPE
  SYNTAX       Unsigned32 (0|50..2000)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of first
       ringing pattern and the start of the transmission of the
       FSK or DTMF containing the caller id information.  It is
       only used when pktcSigDevCidMode is set to a value of
       'duringRingingETS'.

       The following
table defines the default values
       for this MIB object, depending on the signal type
```

(pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	550 ms
dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	any value (not used)
lrETS	any value (not used)

An attempt to set this object while the value of
pktcSigDevCidMode is not duringringingETS will result in
an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."
REFERENCE
"ETSI-EN-300-659-1 Specification"
DEFVAL { 550 }
::= {pktcSigDevObjects 22 }

pktcSigDevCidAfterDTAS OBJECT-TYPE
SYNTAX Unsigned32 (0|45..500)
UNITS "Milliseconds"
MAX-ACCESS
read-write
STATUS current
DESCRIPTION
" This object specifies the delay between the end of the
Dual Tone Alert Signal (DT-AS) and the start of the
transmission of the FSK or DTMF containing the caller id
information. This object is only used when
pktcSigDevCidMode is set to a value of 'dtAsETS' or
'lrAsETS'.

The following table defines the default values
for this MIB object, depending on the signal type
(pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode Default value

duringringingETS any value (not used)
dtAsETS 50 ms
rpAsETS any value (not used)
lrAsETS 50 ms
lrETS any value (not used)

An attempt to set this object while the value of

pktcSigDevCidMode
is not 'dtAsETS' or 'lrAsETS' will
result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA
reboots."

```
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 50 }
  ::= {pktcSigDevObjects 23 }

pktcSigDevCidAfterRPAS    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|500..800)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Ring Pulse Alert Signal (RP-AS) and the start of the
       transmission of the FSK or DTMF containing the caller id
       information.  This MIB object is only used when
       pktcSigDevCidMode is set to a value of 'rpAsETS'.
       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevCidMode), and MUST be followed:

       Value of pktcSigDevCidMode       Default
 value

       duringringingETS               any value  (not used)
       dtAsETS                        any value  (not used)
       rpAsETS                        650 ms
       lrAsETS                        any value  (not used)
       lrETS                         any value  (not used)

       An attempt to set this object while the value of
       pktcSigDevCidMode is not 'rpAsETS' will result in an
       'inconsistentValue' error.

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 650 }
  ::= {pktcSigDevObjects 24 }

pktcSigDevRingAfterCID    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|50..500)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write



  STATUS       current
```

```
  DESCRIPTION
      " This object specifies the delay between the end of the
        complete transmission of the FSK or DTMF containing the
        caller
 id information and the start of the first ring
        pattern.  It is only used when pktcSigDevCidMode is
        set to a value of 'dtAsETS', 'rpAsETS', 'lrAsETS' or
        'lrETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevCidMode), and MUST be followed:

        Value of pktcSigDevCidMode       Default value

        duringringingETS              any value  (not used)
        dtAsETS                       250 ms
        rpAsETS                       250 ms
        lrAsETS                       250 ms
        lrETS                         250 ms

        An attempt to set this object while the value of
        pktcSigDevCidMode is not 'dtAsETS', 'rpAsETS',
        'lrAsETS', or 'lrETS' will result in an 'inconsistent
        value' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
  REFERENCE

   "ETSI-EN-300-659-1 Specification"
  DEFVAL { 250 }
  ::= {pktcSigDevObjects 25 }

pktcSigDevCidDTASAfterLR    OBJECT-TYPE
  SYNTAX       Unsigned32 (50..655)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
      " This object specifies the delay between the end of the
        Line Reversal and the start of the Dual Tone Alert Signal
        (DT-AS).  This object is only used when pktcSigDevCidMode
        is set to a value of 'lrAsETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevCidMode), and MUST be followed:
```

```
        Value of pktcSigDevCidMode       Default value

        duringringingETS                 any value  (not used)
        dtAsETS                          any value  (not used)
        rpAsETS                          any value  (not used)
        lrAsETS                          250 ms
        lrETS
                        any value  (not used)

        An attempt to set this object while the value of
        pktcSigDevCidMode is not lrAsETS will result in an
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification"
    DEFVAL { 250 }

    ::= {pktcSigDevObjects 26 }

pktcSigDevVmwiMode    OBJECT-TYPE
    SYNTAX      INTEGER {
                dtAsETS(1),
                rpAsETS(2),
                lrAsETS(3),
                osi(4),
                lrETS(5)
                }
    MAX-ACCESS read-write
    STATUS current
    DESCRIPTION
       " For visual message waiting indicator (VMWI),
        pktcSigDevVmwiMode selects the alerting signal method.  For
        the dtAsETS, rpAsETS, lrAsETS, osi, and lrETS methods,
        the FSK containing the VMWI information is sent after an
        alerting signal.

        For the dtAsETS method,
   the FSK, or DTMF
        is sent after the Dual Tone Alert Signal.  For the rpAsETS
        method, the FSK or DTMF is sent after a Ring Pulse.

        For the lrAsETS method, the Line Reversal occurs first,
```

then the Dual Tone Alert Signal, and, finally, the FSK or DTMF is sent.

For the OSI method, the FSK or DTMF is sent after the Open Switching Interval.

For the lrETS method, the Line Reversal occurs first, then the FSK or DTMF is sent.

The value of this MIB object MUST NOT persist across MTA reboots."

```
  DEFVAL { rpAsETS }
  ::= {pktcSigDevObjects 27 }

pktcSigDevVmwiAfterDTAS    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|45..500)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Dual Tone Alert Signal (DT-AS) and the start of the
       transmission of the
 FSK or DTMF containing the VMWI
       information.

       This object is only used when pktcSigDevVmwiMode is
       set to a value of 'dtAsETS' or 'lrAsETS'.

       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevVmwiMode), and MUST be followed:

       Value of pktcSigDevVmwiMode       Default value

       dtAsETS                    50 ms
       rpAsETS                    any value  (not used)
       lrAsETS                   50 ms
       lrETS                    any value  (not used)

       An attempt to set this object while the value of
       pktcSigDevVmwiMode is not 'dtAsETS' or 'lrAsETS' will
       result in an 'inconsistentValue' error.
```

```
        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification"
    DEFVAL { 50 }
    ::= {pktcSigDevObjects 28
  }


pktcSigDevVmwiAfterRPAS    OBJECT-TYPE
    SYNTAX       Unsigned32 (0|500..800)



    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies the delay between the end of the
        Ring Pulse Alert Signal (RP-AS) and the start of the
        transmission of the FSK or DTMF containing the VMWI
        information.

        This object is only used when pktcSigDevVmwiMode is
        set to a value of 'rpAsETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevVmwiMode), and MUST be followed:

        Value of pktcSigDevVmwiMode       Default value

        dtAsETS                     any value  (not used)
        rpAsETS                     650 ms
        lrAsETS                    any value  (not used)
        lrETS                      any value  (not used)

        An attempt
   to set this object while the value of
        pktcSigDevVmwiMode is not 'rpAsETS' will result in an
        'inconsistentValue' error.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification"
    DEFVAL { 650 }
    ::= {pktcSigDevObjects 29 }
```

```
pktcSigDevVmwiDTASAfterLR    OBJECT-TYPE
  SYNTAX       Unsigned32 (0|50..655)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-write
  STATUS       current
  DESCRIPTION
     " This object specifies the delay between the end of the
       Line Reversal and the start of the Dual Tone Alert Signal
       (DT-AS) for VMWI information.  This object is only used
       when pktcSigDevVmwiMode is set to a value of 'lrAsETS'.

       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevVmwiMode), and MUST be followed:




       Value of pktcSigDevVmwiMode
      Default value

       dtAsETS                    any value  (not used)
       rpAsETS                    any value  (not used)
       lrAsETS                   250 ms
       lrETS                    any value  (not used)

       An attempt to set this object while the value of
       pktcSigDevVmwiMode is not 'lrAsETS' will result in an
       'inconsistentValue' error.

       The value of this MIB object MUST NOT persist across MTA
       reboots."
  REFERENCE
     "ETSI-EN-300-659-1 Specification"
  DEFVAL { 250 }
  ::= {pktcSigDevObjects 30 }

pktcSigDevRingCadenceTable    OBJECT-TYPE
  SYNTAX       SEQUENCE OF PktcSigDevRingCadenceEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     "Cadence rings are defined by the telco governing
      body for each country.  The MTA must be able to support
      various ranges of cadence patterns and cadence periods.
      The
```

```
 MTA will be able to support country-specific
       provisioning of the cadence and idle period.  Each
       cadence pattern will be assigned a unique value ranging
       from 0-127 (inclusive) corresponding to the value of x,
       where x is the value sent in the cadence ringing (cr)
       signal cr(x), requested per the appropriate NCS
       message, and defined in the E package.  The MTA will derive
       the cadence periods from the ring cadence table entry, as
       provisioned by the customer.  The MTA is allowed to provide
       appropriate default values for each of the ring cadences.
       This table only needs to be supported when the MTA
       implements the E package."
  REFERENCE
     "ETSI-TS-101-909-4 Specification"
  ::= { pktcSigDevObjects 31 }

pktcSigDevRingCadenceEntry    OBJECT-TYPE
  SYNTAX       PktcSigDevRingCadenceEntry
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION



      " Each entry in
 this row corresponds to a ring cadence
       that is being supported by the device.  The conceptual
       rows MUST NOT persist across MTA reboots."
  INDEX { pktcSigDevRingCadenceIndex }
  ::= { pktcSigDevRingCadenceTable 1 }

PktcSigDevRingCadenceEntry ::= SEQUENCE {
     pktcSigDevRingCadenceIndex       Unsigned32,
     pktcSigDevRingCadence            PktcRingCadence
  }

pktcSigDevRingCadenceIndex    OBJECT-TYPE
  SYNTAX       Unsigned32 (0..127)
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     " A unique value ranging from 0 to 127 that corresponds to the
       value sent by the LE based on country-specific cadences,
       one row per cadence cycle.  In any given system
       implementation for a particular country, it is anticipated
       that a small number of ring cadences will be in use.  Thus,
       this table most likely will not be populated to its full
       size."
```

::= { pktcSigDevRingCadenceEntry
1 }

pktcSigDevRingCadence OBJECT-TYPE
SYNTAX PktcRingCadence
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This is the Ring Cadence."
::= { pktcSigDevRingCadenceEntry 2 }

pktcSigDevToneTable OBJECT-TYPE
SYNTAX SEQUENCE OF PktcSigDevToneEntry
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
" The Tone Table defines the composition of tones and
various tone operations.

The definition of the tones callWaiting1 through
callWaiting4 in this table MUST only contain the
audible tone itself; the delay between tones or the value
of the tone repeat count are not applicable for the call
waiting tones.

The delay between tones or the repeat count is controlled
by the objects pktcSigEndPntConfigCallWaitingDelay and
pktcSigEndPntConfigCallWaitingMaxRep. If the
pktcSigDevToneType is set to either
of the values
callWaiting1, callWaiting2, callWaiting3, or callWaiting4,
then the value of the pktcSigDevToneWholeToneRepeatCount
object indicates that the particular frequency group is
applicable, as a repeatable part of the tone, based on the
value of the MIB object
pktcSigDevToneWholeToneRepeatCount.

The MTA MUST make sure that, after the provisioning
cycle, the table is fully populated (i.e., for each
possible index, an entry MUST be defined) using
reasonable defaults for each row that was not defined
by the provisioning information delivered via MTA
Configuration.

```
        The frequency composition of each tone is defined by the
        pktcSigDevMultiFreqToneTable.  For each tone type defined
        in pktcSigDevToneTable, the MTA MUST populate at least
        one entry in the pktcSigDevMultiFreqToneTable.

        For each particular value of pktcSigDevToneType,
 the
        pktcSigDevToneTable table can define non-repeating and
        repeating groups of the frequencies defined by the
        pktcSigDevMultiFreqToneTable, such that each group is
        represented by the set of the consecutive rows
        (frequency group) in the pktcSigDevMultiFreqToneTable.

        Objects in this table do not persist across MTA reboots.
        For tones with multiple frequencies refer to the MIB table
        pktcSigDevMultiFreqToneTable."
    REFERENCE
       "PacketCable NCS Specification, ETSI-TS-101-909-4
       Specification."
    ::= { pktcSigDevObjects 32 }

pktcSigDevToneEntry    OBJECT-TYPE
    SYNTAX       PktcSigDevToneEntry
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION
       " The different tone types that can be provisioned based on
        country-specific needs.

        Each entry contains the tone generation parameters for
        a specific frequency group of the specific
 Tone Type.



        The different parameters can be provisioned via MTA
        configuration based on country specific needs.
        An MTA MUST populate all entries of this table for each
        tone type."
    INDEX { pktcSigDevToneType, pktcSigDevToneFreqGroup }
    ::= { pktcSigDevToneTable 1 }

PktcSigDevToneEntry ::= SEQUENCE {
    pktcSigDevToneType                  INTEGER,
    pktcSigDevToneFreqGroup             Unsigned32,
    pktcSigDevToneFreqCounter           Unsigned32,
    pktcSigDevToneWholeToneRepeatCount  Unsigned32,
    pktcSigDevToneSteady                TruthValue
```

```
  }

pktcSigDevToneType       OBJECT-TYPE
  SYNTAX      INTEGER {
              busy(1),
              confirmation(2),
              dial(3),
              messageWaiting(4),
              offHookWarning(5),
              ringBack(6),
              reOrder(7),
              stutterdial(8),
              callWaiting1(9),

      callWaiting2(10),
              callWaiting3(11),
              callWaiting4(12),
              alertingSignal(13),
              specialDial(14),
              specialInfo(15),
              release(16),
              congestion(17),
              userDefined1(18),
              userDefined2(19),
              userDefined3(20),
              userDefined4(21)
              }
  MAX-ACCESS   not-accessible
  STATUS       current
  DESCRIPTION
     "A unique value that will correspond to the different
      tone types.  These tones can be provisioned based on
      country-specific needs.  This object defines the type
      of tone being accessed.

      The alertingSignal, specialDial, specialInfo, release,



      congestion, userDefined1, userDefined2, userDefined3,
      and userDefined4 tone types are used in
      the E line package."
  ::= { pktcSigDevToneEntry 1 }

pktcSigDevToneFreqGroup  OBJECT-TYPE

  SYNTAX      Unsigned32(1..4)
    MAX-ACCESS   not-accessible
```

```
    STATUS       current
    DESCRIPTION
      "This MIB object represents the Tone Sequence reference
      of a multi-sequence tone."
    ::={ pktcSigDevToneEntry 2}

pktcSigDevToneFreqCounter OBJECT-TYPE
    SYNTAX       Unsigned32(1..8)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This MIB object represents the number of consecutive
      multi-frequency tones for the particular tone type in
      the multi-frequency table (pktcSigDevMultiFreqToneTable).

      Such a sequence of the consecutive multi-frequency tones
      forms the tone group for the particular tone type in the
      pktcSigDevToneTable."
    ::={ pktcSigDevToneEntry 3}

pktcSigDevToneWholeToneRepeatCount      OBJECT-TYPE
  SYNTAX       Unsigned32 (0..5000)
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     "This is the repeat count,
 which signifies how many times
      to repeat the entire on-off cadence sequence.  Setting this
      object may result in a cadence duration longer or shorter
      than the overall signal duration specified by the time out
      (TO) object for a particular signal.  If the repeat count
      results in a longer tone duration than the signal duration
      specified by the TO, the tone duration defined by the
      TO object for a particular signal always represents
      the overall signal duration for a tone.  In this case, the
      tone duration repeat count will not be fully exercised, and
      the desired tone duration will be truncated per the TO
      setting.  If the repeat count results in a shorter tone
      duration than the signal duration specified by the TO, the
      tone duration defined by the repeat count takes precedence
      over the TO and will end the signal event.  In this case,



      the TO represents a
 time not to be exceeded for the signal.
      It is recommended to ensure proper telephony signaling so that
      the TO duration setting should always be longer than the
```

desired repeat count-time duration."
::={ pktcSigDevToneEntry 4 }

pktcSigDevToneSteady OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION
"This MIB object represents the steady tone status. A value
of 'true(1)' indicates that the steady tone is applied, and
a value of 'false(2)' indicates otherwise.
Devices must play out the on-off cadence sequence for
the number of times indicated by the MIB object
'pktcSigDevToneWholeToneRepeatCount' prior to applying the
last tone steadily, indefinitely. If the MIB table
'pktcSigDevToneTable' contains multiple rows with this
Object set to a value of 'true(1)', the steady tone is
applied to the last repeating frequency
group of the tone.

Setting this MIB object may result in a tone duration that is
longer or shorter than the overall signal duration
specified by the time out (TO) MIB object for a particular
signal. If the repeat count results in a longer tone
duration than the signal duration specified by the TO, the
tone duration defined by the TO object for a particular
signal always represents the overall signal duration for a
tone. In this case, the tone duration repeat count will
not be fully exercised, and the desired tone duration will
be truncated per the TO setting. If the repeat count
results in a shorter tone duration than the signal duration
specified by the TO, the tone duration defined by the
repeat count takes precedence over the TO and will end the
signal event. In this case, the TO represents a time not to
be exceeded for the signal.

It is recommended to ensure proper telephony signaling that
The TO duration setting should always be longer than the
desired repeat count-time duration, plus the desired maximum
steady tone period."
::={ pktcSigDevToneEntry 5 }

pktcSigDevMultiFreqToneTable OBJECT-TYPE
SYNTAX SEQUENCE OF PktcSigDevMultiFreqToneEntry
MAX-ACCESS not-accessible
STATUS current

```
    DESCRIPTION
      " This MIB table defines the characteristics of tones
        with multiple frequencies.  The constraints imposed
        on the tones by the MIB table pktcSigDevToneTable
        need to be considered for MIB objects in this table
        as well.

        The MTA MUST populate the corresponding row(s)
        of the pktcSigDevMultiFreqToneTable for each tone
        defined in the pktcSigDevToneTable.

        The contents of the table may be provisioned via
        MTA configuration."
    REFERENCE
      "PacketCable NCS Specification, ETSI-TS-101-909-4
       Specification."
    ::= { pktcSigDevObjects 33 }

pktcSigDevMultiFreqToneEntry    OBJECT-TYPE
    SYNTAX      PktcSigDevMultiFreqToneEntry
    MAX-ACCESS   not-accessible
    STATUS      current
    DESCRIPTION
      " The different tone types with multiple frequencies
        that can be provisioned based on country-specific
        needs."
    INDEX {pktcSigDevToneType, pktcSigDevToneNumber}
    ::= { pktcSigDevMultiFreqToneTable 1 }

PktcSigDevMultiFreqToneEntry ::= SEQUENCE {
     pktcSigDevToneNumber                Unsigned32,
     pktcSigDevToneFirstFreqValue        Unsigned32,
     pktcSigDevToneSecondFreqValue       Unsigned32,
     pktcSigDevToneThirdFreqValue        Unsigned32,
     pktcSigDevToneFourthFreqValue       Unsigned32,
     pktcSigDevToneFreqMode              INTEGER,
     pktcSigDevToneFreqAmpModePrtg
       Unsigned32,
     pktcSigDevToneDbLevel               TenthdBm,
     pktcSigDevToneFreqOnDuration        Unsigned32,
     pktcSigDevToneFreqOffDuration       Unsigned32,
     pktcSigDevToneFreqRepeatCount       Unsigned32
}

pktcSigDevToneNumber OBJECT-TYPE
    SYNTAX      Unsigned32(1..8)
```

```
    MAX-ACCESS   not-accessible
    STATUS       current
    DESCRIPTION


        "This MIB object represents the frequency reference
         of a multi-frequency tone."
    ::={ pktcSigDevMultiFreqToneEntry 1}

pktcSigDevToneFirstFreqValue    OBJECT-TYPE
    SYNTAX       Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This MIB object represents the value of the first
       frequency of a tone type.  A value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 2}

pktcSigDevToneSecondFreqValue
  OBJECT-TYPE
    SYNTAX       Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This MIB object represents the value of the second
       frequency of a tone type.  A value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 3}

pktcSigDevToneThirdFreqValue    OBJECT-TYPE
    SYNTAX       Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This MIB object represents the value of the third
       frequency of a tone type.  A value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 4}

pktcSigDevToneFourthFreqValue    OBJECT-TYPE
    SYNTAX       Unsigned32(0..4000)
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
      "This MIB object represents the value of the fourth
       frequency of a tone type.  A
```

```
value of zero implies
       absence of the referenced frequency."
    ::={ pktcSigDevMultiFreqToneEntry 5}

 pktcSigDevToneFreqMode OBJECT-TYPE
    SYNTAX      INTEGER {
                firstModulatedBySecond(1),
                summation(2)




                }
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
    "This MIB object provides directive on the
     modulation or summation of the frequencies
     involved in the tone.

     It is to be noted that while summation can
     be done without any constraint on the number
     of frequencies, the modulation (amplitude)
     holds good only when there are two frequencies
     (first and second).

     Thus:
       - If the mode is set to a value of
         'firstModulatedBySecond(1)', the first frequency
         MUST be modulated by the second, and the remaining
         frequencies (third and fourth) ignored.  The
         percentage
of amplitude modulation to be applied
         is defined by the MIB object
         pktcSigDevToneFreqAmpModePrtg.

       - If the mode is set to a value of
         'summation(2)', all the frequencies MUST be
         summed without any modulation.
    "
    ::={ pktcSigDevMultiFreqToneEntry 6}

pktcSigDevToneFreqAmpModePrtg OBJECT-TYPE
    SYNTAX      Unsigned32(0..100)
    MAX-ACCESS   read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the percentage of amplitude
       modulation applied to the second frequency
```

when the MIB object pktcSigDevToneFreqMode is
set to a value of 'firstModulatedBySecond (1)'.

If the MIB object pktcSigDevToneFreqMode is set to
value of 'summation (2)', then this MIB object MUST be
ignored."
::={ pktcSigDevMultiFreqToneEntry 7}

pktcSigDevToneDbLevel OBJECT-TYPE
SYNTAX TenthdBm (-250..-110)
UNITS
"1/10 of a dBm"
MAX-ACCESS read-only

STATUS current
DESCRIPTION
"This MIB object contains the decibel level for each
analog signal (tone) that is locally generated
(versus in-band supervisory tones) and sourced to
the a-b terminals (TE connection point). Each tone
in itself may consist of multiple frequencies, as
defined by the MIB table pktcSigDevMultiFreqToneTable.

This MIB object reflects the desired level at
the Telco (POTS) a-b (T/R) terminals, including the
effect of any MTA receiver gain (loss). This is required
so that locally generated tones are consistent with
remotely generated in-band tones at the a-b terminals,
consistent with user expectations.

This MIB object must be set for each tone.
When tones are formed by combining multi-frequencies,
the level of each frequency
shall be set so as to result
in the tone level specified in this object at the a-b
(T/R) terminals.

The wide range of levels for this Object is required
to provide signal-generator levels across the wide
range of gains (losses) -- but does not imply the entire
range is to be achievable given the range of gains (losses)
in the MTA."
DEFVAL { -120 }
::={ pktcSigDevMultiFreqToneEntry 8}

pktcSigDevToneFreqOnDuration OBJECT-TYPE

```
    SYNTAX      Unsigned32(0..5000)
    UNITS       "milliseconds"
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the duration for which the
       frequency reference corresponding to the tone type
       is turned on."
    ::={ pktcSigDevMultiFreqToneEntry 9}

 pktcSigDevToneFreqOffDuration OBJECT-TYPE
    SYNTAX      Unsigned32(0..5000)
    UNITS       "milliseconds"
    MAX-ACCESS
 read-only
    STATUS      current
    DESCRIPTION
      "This MIB object represents the duration for which the




       frequency reference corresponding to the tone type
       is turned off."
    ::={ pktcSigDevMultiFreqToneEntry 10}

 pktcSigDevToneFreqRepeatCount OBJECT-TYPE
    SYNTAX      Unsigned32(0..5000)
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION
    "This MIB object indicates the number of times
    to repeat the cadence cycle represented by the
    on/off durations (refer to the MIB objects
    pktcSigDevToneFreqOnDuration and
    pktcSigDevToneFreqOffDuration).

    Setting this object may result in a tone duration that is
    longer or shorter than the overall signal duration
    specified by the time out (TO) object for the
    corresponding tone type.  If the value of this MIB
    Object indicates a longer duration than that
    specified by the TO, the latter overrules
the former,
    and the desired tone duration will be truncated according
    to the TO.

    However, if the repeat count results in a shorter
    tone duration than the signal duration specified by
```

the TO, the tone duration defined by the repeat count takes precedence over the TO and will end the signal event. In this case, the TO represents a time not to be exceeded for the signal. It is recommended, to ensure proper telephony signaling, that the TO duration setting should always be longer than the desired repeat count-time duration. A value of zero means the tone sequence is to be played once but not repeated."
::={ pktcSigDevMultiFreqToneEntry 11}

pktcSigDevCidDelayAfterLR OBJECT-TYPE
SYNTAX Unsigned32 (300..800)
UNITS "Milliseconds"
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object specifies the delay between the end of the
Line Reversal and the start of the FSK or DTMF signal. This MIB object is used only when pktcSigDevCidMode is set to a value of 'lrETS'. This timing has a range of 300 to 800 ms.

The following table defines the default values for this MIB object, depending on the signal type (pktcSigDevCidMode), and MUST be followed:

Value of pktcSigDevCidMode	Default value
duringringingETS	any value (not used)
dtAsETS	any value (not used)
rpAsETS	any value (not used)
lrAsETS	any value (not used)
lrETS	400

An attempt to set this object while the value of pktcSigDevCidMode is not set to a value of 'lrETS' will result in an 'inconsistentValue' error.

The value of this MIB object MUST NOT persist across MTA reboots."
DEFVAL { 400 }
::= {pktcSigDevObjects 34 }

```
pktcSigDevCidDtmfStartCode OBJECT-TYPE
   SYNTAX      DtmfCode
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "This object identifies optional start codes used when
       the MIB object pktcSigDevCidSigProtocol is set
       to a value of 'dtmf(2)'.

       Different countries define different caller id signaling
       codes to support caller identification.  When Dual-Tone
       Multi-Frequency (DTMF) is used, the caller id digits are
       preceded by a 'start code' digit, followed by the digit
       transmission sequence <S1>...<Sn> (where Sx represents
       the digits 0-9), and terminated by the 'end code' digit.

       For example,
         <A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.
       The start code for calling number delivery may be DTMF

       'A' or 'D'.  The start code for redirecting a number may be
       DTMF 'D'.  The DTMF code 'B' may be sent by the network
       as a start code for the transfer of information values,
       through which special events can be indicated to the
       user.  In some countries, the '*' or '#' may be used
       instead of 'A', 'B', 'C', or 'D'.

       The value of this MIB object MUST NOT persist across MTA




       reboots."
   REFERENCE
      "ETSI-EN-300-659-1 specification"
   DEFVAL {dtmfcodeA}
::= { pktcSigDevObjects 35 }

pktcSigDevCidDtmfEndCode OBJECT-TYPE
   SYNTAX      DtmfCode
   MAX-ACCESS  read-write
   STATUS      current
   DESCRIPTION
      "This object identifies optional end codes used when the
       pktcSigDevCidSigProtocol is set to a value of
       'dtmf(2)'.

       Different countries define different caller id signaling
       protocols to support caller
```

```
identification.  When
        Dual-Tone Multi-Frequency (DTMF) is used, the caller id
        digits are preceded by a 'start code' digit, followed by
        the digit transmission sequence <S1>...<Sn> (where Sx
        represents the digits 0-9), and terminated by the 'end
        code' digit.

        For example,
          <A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

        The DTMF code 'C' may be sent by the network as an
        end code for the transfer of information values, through
        which special events can be indicated to the user.  In
        some countries, the '*' or '#' may be used instead of
        'A', 'B', 'C', or 'D'.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
        "ETSI-EN-300-659-1 specification"
    DEFVAL {dtmfcodeC}
::= { pktcSigDevObjects 36 }

pktcSigDevVmwiSigProtocol  OBJECT-TYPE
    SYNTAX       PktcSubscriberSideSigProtocol
     MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       "This object identifies the subscriber line protocol used
        for signaling the information on Visual Message Waiting
        Indicator (VMWI).  Different countries define different
        VMWI signaling protocols to support VMWI service.



        Frequency shift keying (FSK) is most commonly used.
        DTMF is an alternative.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
     DEFVAL { fsk }
::= { pktcSigDevObjects 37 }

pktcSigDevVmwiDelayAfterLR    OBJECT-TYPE
    SYNTAX       Unsigned32 (0|300..800)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
```

```
    DESCRIPTION
      "This object specifies the delay between the end of the
       Line Reversal and the start of the FSK or DTMF signal.
       This object is only used when pktcSigDevVmwiMode
is
       set to a value of 'lrETS'.
       This timing has a range of 300 to 800 ms.

       The following table defines the default values
       for this MIB object, depending on the signal type
      (pktcSigDevVmwiMode), and MUST be followed:

       Value of pktcSigDevVmwiMode       Default value

       duringringingETS                  any value  (not used)
       dtAsETS                           any value  (not used)
       rpAsETS                           any value  (not used)
       lrAsETS                           any value  (not used)
       lrETS                             400

       An attempt to set this object while the value of
       pktcSigDevVmwiMode is not 'lrETS' will result in an
       'inconsistentValue' error.

       The value of this MIB object MUST NOT persist across MTA
       reboots."

    DEFVAL {400}
      ::= {pktcSigDevObjects 38 }

 pktcSigDevVmwiDtmfStartCode
OBJECT-TYPE
    SYNTAX      DtmfCode
    MAX-ACCESS  read-write
    STATUS      current
    DESCRIPTION
      "This object identifies optional start codes used when




       the pktcSigDevVmwiSigProtocol is set to a value of
       'dtmf(2)'.  Different countries define different On Hook
       Data Transmission Protocol signaling codes to support
       VMWI.

       When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI
       digits are preceded by a 'start code' digit, followed
       by the digit transmission sequence <S1>...<Sn> (where
```

Sx represents the digits 0-9), and terminated by the 'end
code' digit.

For example,
<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The start code for redirecting VMWI may be DTMF 'D'
The DTMF code 'B' may be sent by the network as a start
code for the transfer of information values, through
which special events can be indicated to the user. In
some countries, the '*' or '#' may be used instead of
'A', 'B', 'C', or 'D'.

The value of this MIB object MUST NOT persist across MTA
reboots."
REFERENCE
"ETSI-EN-300-659-1 specification"
DEFVAL {dtmfcodeA}
::= { pktcSigDevObjects 39 }

pktcSigDevVmwiDtmfEndCode OBJECT-TYPE
SYNTAX DtmfCode
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"This object identifies an optional end code used when the
pktcSigDevVmwiSigProtocol is set to a value of
'dtmf(2)'. Different countries define different on-hook
Data Transmission Protocol signaling codes to support
VMWI.

When Dual-Tone Multi-Frequency (DTMF) is used, the VMWI
digits are preceded by a 'start code' digit, followed
by the digit transmission sequence
<S1>...<Sn> (where
Sx represents the digits 0-9), and terminated by the 'end
code' digit.

For example,
<A><S1>...<Sn> <D><S1>...<Sn> <B><S1>...<Sn> <C>.

The DTMF code 'C' may be sent by the network as an end code
for the transfer of information values, through which
special events can be indicated to the user. In some
countries, the '*' or '#' may be used instead of 'A',

```
        'B', 'C', or 'D'.

        The value of this MIB object MUST NOT persist across MTA
        reboots."
    REFERENCE
        "ETSI-EN-300-659-1 specification"
    DEFVAL {dtmfcodeC}
 ::= { pktcSigDevObjects 40 }

pktcSigDevrpAsDtsDuration     OBJECT-TYPE
    SYNTAX       Unsigned32 (0|200..500)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-write
    STATUS       current
    DESCRIPTION
       " This object specifies the duration of the rpASDTS ring

  pulse prior to the start of the transmission of the
        FSK or DTMF containing the caller id information.  It is
        only used when pktcSigDevCidMode is set to a value of
        'rpAsETS'.

        The following table defines the default values
        for this MIB object, depending on the signal type
       (pktcSigDevCidMode), and MUST be followed:

        Value of pktcSigDevCidMode       Default value

        duringringingETS              any value  (not used)
        dtAsETS                       any value  (not used)
        rpAsETS                       250
        lrAsETS                       any value  (not used)
        lrETS                        any value  (not used)

        An attempt to set this object while the value of
        pktcSigDevCidMode is not 'rpAsETS' will result in
        an 'inconsistentValue' error.

        The value of this MIB object MUST NOT persist
 across MTA
        reboots."
    REFERENCE
       "ETSI-EN-300-659-1 Specification and Belgacom
        BGC_D_48_9811_30_09_EDOC version 3.3"
    DEFVAL { 250 }
    ::= {pktcSigDevObjects 41 }
```

```
--
-- The Endpoint Config Table is used to define attributes that
-- are specific to connection EndPoints.
--

pktcSigEndPntConfigTable  OBJECT-TYPE
  SYNTAX        SEQUENCE OF PktcSigEndPntConfigEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     " This table describes the information pertaining to each
       endpoint of the MTA.  All entries in this table represent
       the provisioned endpoints provisioned with the information
       required by the MTA to maintain the NCS protocol
       communication with the CMS.  Each endpoint can be assigned
       to its own CMS.  If the specific endpoint does not have
       the corresponding CMS information in this table, the
       endpoint is considered as not
 provisioned with voice
       services.  Objects in this table do not persist across
       MTA reboots."
 ::=  { pktcSigEndPntConfigObjects 1 }

pktcSigEndPntConfigEntry  OBJECT-TYPE
  SYNTAX        PktcSigEndPntConfigEntry
  MAX-ACCESS    not-accessible
  STATUS        current
  DESCRIPTION
     "Each entry in the pktcSigEndPntConfigTable represents
      required signaling parameters for the specific endpoint
      provisioned with voice services.  The conceptual rows MUST
      NOT persist across MTA reboots."
  INDEX { ifIndex }
  ::= { pktcSigEndPntConfigTable 1 }

PktcSigEndPntConfigEntry  ::= SEQUENCE {
  pktcSigEndPntConfigCallAgentId            SnmpAdminString,
  pktcSigEndPntConfigCallAgentUdpPort       InetPortNumber,
  pktcSigEndPntConfigPartialDialTO          Unsigned32,
  pktcSigEndPntConfigCriticalDialTO         Unsigned32,
  pktcSigEndPntConfigBusyToneTO             Unsigned32,
  pktcSigEndPntConfigDialToneTO
    Unsigned32,
  pktcSigEndPntConfigMessageWaitingTO       Unsigned32,
  pktcSigEndPntConfigOffHookWarnToneTO      Unsigned32,
  pktcSigEndPntConfigRingingTO              Unsigned32,
```

```
  pktcSigEndPntConfigRingBackTO            Unsigned32,
  pktcSigEndPntConfigReorderToneTO         Unsigned32,
  pktcSigEndPntConfigStutterDialToneTO     Unsigned32,



  pktcSigEndPntConfigTSMax                 Unsigned32,
  pktcSigEndPntConfigMax1                  Unsigned32,
  pktcSigEndPntConfigMax2                  Unsigned32,
  pktcSigEndPntConfigMax1QEnable           TruthValue,
  pktcSigEndPntConfigMax2QEnable           TruthValue,
  pktcSigEndPntConfigMWD                   Unsigned32,
  pktcSigEndPntConfigTdinit                Unsigned32,
  pktcSigEndPntConfigTdmin                 Unsigned32,
  pktcSigEndPntConfigTdmax                 Unsigned32,
  pktcSigEndPntConfigRtoMax                Unsigned32,
  pktcSigEndPntConfigRtoInit
        Unsigned32,
  pktcSigEndPntConfigLongDurationKeepAlive  Unsigned32,
  pktcSigEndPntConfigThist                 Unsigned32,
  pktcSigEndPntConfigStatus                RowStatus,
  pktcSigEndPntConfigCallWaitingMaxRep     Unsigned32,
  pktcSigEndPntConfigCallWaitingDelay      Unsigned32,
  pktcSigEndPntStatusCallIpAddressType     InetAddressType,
  pktcSigEndPntStatusCallIpAddress         InetAddress,
  pktcSigEndPntStatusError                 INTEGER,
  pktcSigEndPntConfigMinHookFlash          Unsigned32,
  pktcSigEndPntConfigMaxHookFlash          Unsigned32,
  pktcSigEndPntConfigPulseDialInterdigitTime Unsigned32,
  pktcSigEndPntConfigPulseDialMinMakeTime   Unsigned32,
  pktcSigEndPntConfigPulseDialMaxMakeTime   Unsigned32,
  pktcSigEndPntConfigPulseDialMinBreakTime  Unsigned32,
  pktcSigEndPntConfigPulseDialMaxBreakTime  Unsigned32
  }

pktcSigEndPntConfigCallAgentId    OBJECT-TYPE
  SYNTAX     SnmpAdminString(SIZE
(3..255))
  MAX-ACCESS  read-create
  STATUS     current
  DESCRIPTION
     " This object contains a string indicating the call agent
       name (e.g., ca@example.com).  The call agent name, after
       the character '@', MUST be a fully qualified domain name
       (FQDN) and MUST have a corresponding pktcMtaDevCmsFqdn
       entry in the pktcMtaDevCmsTable.  The object
       pktcMtaDevCmsFqdn is defined in the PacketCable MIBMTA
       Specification.  For each particular endpoint, the MTA MUST
```

use the current value of this object to communicate with
the corresponding CMS. The MTA MUST update this object
with the value of the 'Notified Entity' parameter of the
NCS message. Because of the high importance of this object
to the ability of the MTA to maintain reliable NCS
communication with the CMS, it is highly recommended not
to change this object's value using SNMP during normal

operation."

::= { pktcSigEndPntConfigEntry 1 }

pktcSigEndPntConfigCallAgentUdpPort OBJECT-TYPE
SYNTAX InetPortNumber (1025..65535)
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the current value of the User
Datagram Protocol (UDP) receive port on which the
call agent will receive NCS from the endpoint.
For each particular endpoint, the MTA MUST use the current
value of this object to communicate with the corresponding
CMS. The MTA MUST update this object with the value of the
'Notified Entity' parameter of the NCS message. If the
Notified Entity parameter does not contain a CallAgent
port, the MTA MUST update this object with the default
value of 2727. Because of the high importance of this
object to the ability of the MTA to maintain reliable NCS
communication with the CMS, it is highly recommended
not
to change this object's value using SNMP during normal
operation."
REFERENCE
"PacketCable NCS Specification"
DEFVAL { 2727 }
::= { pktcSigEndPntConfigEntry 2 }

pktcSigEndPntConfigPartialDialTO OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
"This object contains the value of the partial dial
time out.
The time out (TO) elements are intended to limit the time a

```
        tone or frequency is generated.  When this MIB object is set
        to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL { 16 }
    ::= { pktcSigEndPntConfigEntry 3 }

pktcSigEndPntConfigCriticalDialTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS
        "seconds"



    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       "This object contains the value of the critical
        dial time out.
        The time out (TO) elements are intended to limit the time a
        tone or frequency is generated.  When this MIB object is set
        to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL { 4 }
    ::= { pktcSigEndPntConfigEntry 4 }

pktcSigEndPntConfigBusyToneTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for busy
         tone.  The MTA MUST NOT update this object with the
         value provided in the NCS message (if present).  If
         the
 value of the object is modified by the SNMP Management
         Station, the MTA MUST use the new value as a default only
         for a new signal requested by the NCS message.
         The time out (TO) elements are intended to limit the time
         a tone or frequency is generated.  When this MIB object is
```

set to a value of '0', the MTA MUST NOT generate the
corresponding frequency or tone, regardless of the
definitions pertaining to frequency, tone duration, or
cadence."
REFERENCE
"PacketCable NCS Specification"
DEFVAL { 30 }
::= { pktcSigEndPntConfigEntry 5 }

pktcSigEndPntConfigDialToneTO OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the default time out value for dial
tone. The MTA MUST NOT update this object with the
value provided in the NCS message (if present).
If

the value of the object is modified by the SNMP Management
Station, the MTA MUST use the new value as a default only
for a new signal requested by the NCS message.
The time out (TO) elements are intended to limit the time
a tone or frequency is generated. When this MIB object is
set to a value of '0', the MTA MUST NOT generate the
corresponding frequency or tone, regardless of the
definitions pertaining to frequency, tone duration, or
cadence."
REFERENCE
"PacketCable NCS Specification"
DEFVAL { 16 }
::= { pktcSigEndPntConfigEntry 6 }

pktcSigEndPntConfigMessageWaitingTO OBJECT-TYPE
SYNTAX Unsigned32
UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the default time out value for message
waiting indicator. The MTA MUST NOT update this object
with the value
provided in the NCS message (if
present). If the value of the object is modified by the
SNMP Manager application, the MTA MUST use the new value

```
        as a default only for a new signal requested by the NCS
        message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 16 }
    ::= { pktcSigEndPntConfigEntry 7 }

pktcSigEndPntConfigOffHookWarnToneTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for the
        off-hook warning tone.  The MTA MUST
 NOT update this object
        with the value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Manager



        application, the MTA MUST use the new value as a default
        only for a new signal requested by the NCS message.  The
        time out (TO) elements are intended to limit the time a tone
        or frequency is generated.  When this MIB object is set to a
        value of '0', the MTA MUST NOT generate the corresponding
        frequency or tone, regardless of the definitions pertaining
        to frequency, tone duration, or cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL { 0 }
    ::= { pktcSigEndPntConfigEntry 8 }

pktcSigEndPntConfigRingingTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for
        ringing.  The MTA
```

```
 MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 180 }
    ::= { pktcSigEndPntConfigEntry 9 }

pktcSigEndPntConfigRingBackTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
    DESCRIPTION
       " This object contains the default time out value for ring

       back.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time



        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
    REFERENCE
       "PacketCable NCS Specification"
    DEFVAL    { 180 }
    ::= { pktcSigEndPntConfigEntry 10 }

pktcSigEndPntConfigReorderToneTO     OBJECT-TYPE
    SYNTAX       Unsigned32
    UNITS        "seconds"
    MAX-ACCESS   read-create
    STATUS       current
```

```
  DESCRIPTION
      " This object contains the default time
 out value for reorder
        tone.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL    { 30 }
  ::= { pktcSigEndPntConfigEntry 11 }

pktcSigEndPntConfigStutterDialToneTO     OBJECT-TYPE
  SYNTAX       Unsigned32
  UNITS        "seconds"
  MAX-ACCESS   read-create
  STATUS       current
  DESCRIPTION
     " This object
 contains the default time out value for stutter
        dial tone.  The MTA MUST NOT update this object with the
        value provided in the NCS message (if present).  If
        the value of the object is modified by the SNMP Management
        Station, the MTA MUST use the new value as a default only
        for a new signal requested by the NCS message.
        The time out (TO) elements are intended to limit the time
        a tone or frequency is generated.  When this MIB object is
        set to a value of '0', the MTA MUST NOT generate the
        corresponding frequency or tone, regardless of the
        definitions pertaining to frequency, tone duration, or
        cadence."
  REFERENCE
        "PacketCable NCS Specification"
  DEFVAL    { 16 }
  ::= { pktcSigEndPntConfigEntry 12 }

pktcSigEndPntConfigTSMax     OBJECT-TYPE
  SYNTAX      Unsigned32
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
        "This MIB object
 is used as part of an NCS
        retransmission algorithm.  Prior to any retransmission,
        the MTA must check to make sure that the time elapsed
        since the sending of the initial datagram does not
        exceed the value specified by this MIB object.  If more
        than Tsmax time has elapsed, then the retransmissions
        MUST cease.

        Refer to the MIB object pktcSigEndPntConfigThist for
        information on when the endpoint becomes disconnected."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 20 }
  ::= { pktcSigEndPntConfigEntry 13 }

pktcSigEndPntConfigMax1     OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object contains the suspicious error threshold for
      signaling messages.  The pktcSigEndPntConfigMax1 object
      indicates the retransmission threshold at which the MTA MAY
      actively query the domain
 name server (DNS) in order to
      detect the possible change of call agent interfaces."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 5 }
  ::= { pktcSigEndPntConfigEntry 14 }

pktcSigEndPntConfigMax2     OBJECT-TYPE
  SYNTAX      Unsigned32
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION



     "This object contains the disconnect error threshold for
      signaling messages.  The pktcSigEndPntConfigMax2 object
      indicates the retransmission threshold at which the MTA
      SHOULD contact the DNS one more time to see if any other
      interfaces to the call agent have become available."
```

```
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 7 }
  ::= { pktcSigEndPntConfigEntry 15 }

pktcSigEndPntConfigMax1QEnable     OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object enables/disables the Max1 domain name server
      (DNS)
 query operation when the pktcSigEndPntConfigMax1
      threshold has been reached.
      A value of true(1) indicates enabling, and a value of
      false(2) indicates disabling."
  DEFVAL { true }
  ::= { pktcSigEndPntConfigEntry 16 }

pktcSigEndPntConfigMax2QEnable     OBJECT-TYPE
  SYNTAX      TruthValue
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object enables/disables the Max2 domain name server
      (DNS) query operation when the pktcSigEndPntConfigMax2
      threshold has been reached.
      A value of true(1) indicates enabling, and a value of
      false(2) indicates disabling."
  DEFVAL { true }
  ::= { pktcSigEndPntConfigEntry 17 }

pktcSigEndPntConfigMWD     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "Maximum Waiting Delay (MWD) contains the maximum number of
      seconds an MTA waits, after powering
 on, before initiating
      the restart procedure with the call agent."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 600 }
```

```
  ::= { pktcSigEndPntConfigEntry 18 }

pktcSigEndPntConfigTdinit     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This MIB object represents the 'disconnected' initial
      waiting delay within the context of an MTA's 'disconnected
      procedure'.  The 'disconnected procedure' is initiated when
      an endpoint becomes 'disconnected' while attempting to
      communicate with a call agent.

      The 'disconnected timer' associated with the 'disconnected
      Procedure' is initialized to a random value, uniformly
      distributed between zero and the value contained in this
      MIB object.

      For more information on the usage of this timer, please
      refer to the PacketCable NCS Specification."
   REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 15 }
  ::= { pktcSigEndPntConfigEntry 19 }

pktcSigEndPntConfigTdmin     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
        "This MIB object represents the 'disconnected' minimum
         waiting delay within the context of an MTA's
         'disconnected procedure', specifically when local user
         activity is detected.
         The 'disconnected procedure' is initiated when
         an endpoint becomes 'disconnected' while attempting to
         communicate with a call agent.
         For more information on the usage of this timer, please
         refer to the PacketCable NCS Specification."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 15 }
  ::= { pktcSigEndPntConfigEntry 20 }

pktcSigEndPntConfigTdmax     OBJECT-TYPE
  SYNTAX      Unsigned32
```

```
  UNITS
  "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the maximum number of seconds the MTA
       waits, after a disconnect, before initiating the
       disconnected procedure with the call agent.
        "
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 600 }
  ::= { pktcSigEndPntConfigEntry 21 }

pktcSigEndPntConfigRtoMax     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     "This object specifies the maximum number of seconds the MTA
      waits for a response to an NCS message before initiating
      a retransmission."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 4 }
  ::= { pktcSigEndPntConfigEntry 22 }

pktcSigEndPntConfigRtoInit     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "milliseconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION

    " This object contains the initial number of seconds for the
       retransmission timer."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 200 }
  ::= { pktcSigEndPntConfigEntry 23 }

pktcSigEndPntConfigLongDurationKeepAlive     OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "minutes"
```

```
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " Specifies a time out value, in minutes, for sending long
       duration call notification messages."



  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 60 }
  ::= { pktcSigEndPntConfigEntry 24 }

pktcSigEndPntConfigThist  OBJECT-TYPE
  SYNTAX      Unsigned32
  UNITS       "seconds"
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " Time out period, in seconds, before no response is declared."
  REFERENCE
     "PacketCable NCS Specification"
  DEFVAL { 30 }
  ::= { pktcSigEndPntConfigEntry 25 }

pktcSigEndPntConfigStatus     OBJECT-TYPE
   SYNTAX      RowStatus
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the Row Status associated with the
       pktcSigEndPntConfigTable.  There are no restrictions or
       dependencies amidst the columnar objects before this
       row can be activated or for modifications of the
       columnar objects when this object is set to a
       value of 'active(1)."
  ::= { pktcSigEndPntConfigEntry 26 }

pktcSigEndPntConfigCallWaitingMaxRep     OBJECT-TYPE
  SYNTAX      Unsigned32 (0..10)
  MAX-ACCESS  read-create
  STATUS      current
  DESCRIPTION
     " This object contains the default value of the maximum
       number of repetitions of the Call Waiting tone that the
       MTA will play from a single CMS request.  The MTA MUST NOT
       update this object with the information provided in the
       NCS message (if present).  If the value of the object is
```

modified by the SNMP
Manager application, the MTA MUST use
the new value as a default only for a new signal
requested by the NCS message."
DEFVAL { 1 }
::= { pktcSigEndPntConfigEntry 27 }

pktcSigEndPntConfigCallWaitingDelay OBJECT-TYPE
SYNTAX Unsigned32 (1..100)

UNITS "seconds"
MAX-ACCESS read-create
STATUS current
DESCRIPTION
" This object contains the delay between repetitions of the
Call Waiting tone that the MTA will play from a single CMS
request."
DEFVAL { 10 }
::= { pktcSigEndPntConfigEntry 28 }

pktcSigEndPntStatusCallIpAddressType OBJECT-TYPE
SYNTAX InetAddressType
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This object contains the type of Internet address contained
in the MIB object 'pktcSigEndPntStatusCallIpAddress'.

Since pktcSigEndPntStatusCallIpAddress is expected to
contain an IP address, a value of dns(16)
is disallowed."

::= { pktcSigEndPntConfigEntry 29 }

pktcSigEndPntStatusCallIpAddress OBJECT-TYPE
SYNTAX InetAddress
MAX-ACCESS read-only
STATUS current
DESCRIPTION
" This MIB object contains the chosen IP address of the CMS
currently being used for the corresponding endpoint.

The device determines the IP address by using DNS to
resolve the IP address of the CMS from the FQDN stored in
the MIB object 'pktcSigEndPntConfigCallAgentId'. The
processes are outlined in the PacketCable NCS and Security

```
        specifications, and MUST be followed by the MTA.

        The IP address type contained in this MIB object is
        indicated by pktcSigEndPntStatusCallIpAddressType."
    REFERENCE
       "PacketCable NCS Specification;
        PacketCable Security specification, [PKT-SP-SEC]."
::= { pktcSigEndPntConfigEntry 30 }

pktcSigEndPntStatusError  OBJECT-TYPE
    SYNTAX INTEGER {
            operational
 (1),
            noSecurityAssociation (2),



            disconnected (3)
           }
    MAX-ACCESS   read-only
    STATUS  current
    DESCRIPTION
      " This object contains the error status for this interface.
        The operational status indicates that all operations
        necessary to put the line in service have occurred, and the
        CMS has acknowledged the Restart In Progress (RSIP)
        message successfully.  If pktcMtaDevCmsIpsecCtrl is enabled
        for the associated call agent, the noSecurityAssociation
        status indicates that no Security Association (SA) yet
        exists for this endpoint.  If pktcMtaDevCmsIpsecCtrl is
        disabled for the associated call agent, the
        noSecurityAssociation status is not applicable and should
        not be used by the MTA.  The disconnected status indicates
        one of the following two:
        If pktcMtaDevCmsIpsecCtrl is disabled, then no security
        association
 is involved with this endpoint.  The NCS
        signaling software is in process of establishing the NCS
        signaling link via an RSIP exchange.
        Otherwise, when pktcMtaDevCmsIpsecCtrl is enabled,
        security Association has been established, and the NCS
        signaling software is in process of establishing the NCS
        signaling link via an RSIP exchange."
    ::= { pktcSigEndPntConfigEntry 31 }

pktcSigEndPntConfigMinHookFlash    OBJECT-TYPE
    SYNTAX       Unsigned32 (20..1550)
    UNITS        "Milliseconds"
```

```
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the minimum time a line needs to be on-hook for a
       valid hook flash.  The value of this object MUST be
       greater than the value of
       pktcSigEndPntConfigPulseDialMaxBreakTime.  The value of
       pktcSigEndPntConfigMinHookFlash MUST be less than
       pktcSigEndPntConfigMaxHookFlash.  This object MUST only be
       set via the
 MTA configuration during the provisioning
       process.
         Furthermore, given the possibility for the 'pulse dial'
         and 'hook flash' to overlap, the value of this object
         MUST be greater than the value contained by the MIB
         Object 'pktcSigEndPntConfigPulseDialMaxMakeTime'."
  DEFVAL { 300 }
  ::= { pktcSigEndPntConfigEntry 32 }




pktcSigEndPntConfigMaxHookFlash    OBJECT-TYPE
  SYNTAX       Unsigned32 (20..1550)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the maximum time a line needs to be on-hook for a
       valid hook flash.  The value of
       pktcSigEndPntConfigMaxHookFlash MUST be greater than
       pktcSigEndPntConfigMinHookFlash.  This object MUST only be
       set via the MTA configuration during the provisioning
       process."
  DEFVAL { 800 }
  ::= { pktcSigEndPntConfigEntry 33 }

pktcSigEndPntConfigPulseDialInterdigitTime
   OBJECT-TYPE
  SYNTAX       Unsigned32 (100..1500)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the pulse dial inter-digit time out.  This object
       MUST only be set via the MTA configuration during the
       provisioning process."
  DEFVAL { 100 }
```

```
  ::= { pktcSigEndPntConfigEntry 34 }

pktcSigEndPntConfigPulseDialMinMakeTime    OBJECT-TYPE
  SYNTAX       Unsigned32 (20..200)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the minimum make pulse width for the dial pulse.
       The value of pktcSigEndPntConfigPulseDialMinMakeTime MUST
       be less than pktcSigEndPntConfigPulseDialMaxMakeTime.  This
       object MUST only be set via the MTA configuration during
       the provisioning process."
  DEFVAL { 25 }
  ::= { pktcSigEndPntConfigEntry 35 }

pktcSigEndPntConfigPulseDialMaxMakeTime    OBJECT-TYPE
   SYNTAX       Unsigned32 (20..200)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the maximum make pulse width for the dial pulse.



       The value of pktcSigEndPntConfigPulseDialMaxMakeTime MUST
       be greater than pktcSigEndPntConfigPulseDialMinMakeTime.
       This object MUST only be provided via the configuration
       file during the provisioning process.
       Furthermore, given the possibility for the 'pulse dial'
       and 'hook flash' to overlap, the value of this object MUST
       be less than the value contained by the MIB object
       pktcSigEndPntConfigMinHookFlash."
  DEFVAL { 55 }
  ::= { pktcSigEndPntConfigEntry 36 }

pktcSigEndPntConfigPulseDialMinBreakTime    OBJECT-TYPE
  SYNTAX       Unsigned32 (20..200)
  UNITS        "Milliseconds"
  MAX-ACCESS   read-only
  STATUS       current
  DESCRIPTION
     " This is the minimum break pulse width
 for the dial pulse.
       The value of pktcSigEndPntConfigPulseDialMinBreakTime MUST
       be less than pktcSigEndPntConfigPulseDialMaxBreakTime.
       This object must only be provided via the configuration
```

```
        file during the provisioning process."
    DEFVAL { 45 }
    ::= { pktcSigEndPntConfigEntry 37 }

pktcSigEndPntConfigPulseDialMaxBreakTime    OBJECT-TYPE
    SYNTAX       Unsigned32 (20..200)
    UNITS        "Milliseconds"
    MAX-ACCESS   read-only
    STATUS       current
    DESCRIPTION
        " This is the maximum break pulse width for the dial pulse.
          The value of pktcSigEndPntConfigPulseDialMaxBreakTime MUST
          be greater than pktcSigEndPntConfigPulseDialMinBreakTime.
          This object MUST only be provided via the configuration
          file during the provisioning process."
    DEFVAL { 75 }
    ::= { pktcSigEndPntConfigEntry 38 }

--
-- notification group is for future extension.
--
pktcSigNotification  OBJECT IDENTIFIER ::= {
 pktcIetfSigMib 0 }
pktcSigConformance   OBJECT IDENTIFIER ::= { pktcIetfSigMib 2 }
pktcSigCompliances   OBJECT IDENTIFIER ::= { pktcSigConformance 1 }
pktcSigGroups        OBJECT IDENTIFIER ::= { pktcSigConformance 2 }

--




-- compliance statements
--

pktcSigBasicCompliance  MODULE-COMPLIANCE
    STATUS     current
    DESCRIPTION
        " The compliance statement for MTAs that implement
          NCS signaling."

MODULE  -- pktcIetfSigMib

---
-- Unconditionally mandatory groups for all MTAs
---

MANDATORY-GROUPS {
    pktcSigDeviceGroup,
```

```
  pktcSigEndpointGroup
}
---
-- Conditionally mandatory groups for MTAs
---

GROUP pktcInternationalGroup
  DESCRIPTION
     " This group is mandatory only for MTAs implementing
       international telephony features."

GROUP pktcLLinePackageGroup
  DESCRIPTION
     " This group is mandatory only for MTAs implementing the L
       line package."

GROUP pktcELinePackageGroup
  DESCRIPTION
     " This group is mandatory only
 for MTAs implementing the E
       Line Package."
  ::={ pktcSigCompliances 1 }

pktcSigDeviceGroup  OBJECT-GROUP
  OBJECTS {
  pktcSigDevCodecMax,
  pktcSigDevEchoCancellation,
  pktcSigDevSilenceSuppression,
  pktcSigDevR0Cadence,
  pktcSigDevR1Cadence,
  pktcSigDevR2Cadence,
  pktcSigDevR3Cadence,



  pktcSigDevR4Cadence,
  pktcSigDevR5Cadence,
  pktcSigDevR6Cadence,
  pktcSigDevR7Cadence,
  pktcSigDevRgCadence,
  pktcSigDevRsCadence,
  pktcSigDefCallSigDscp,
  pktcSigDefMediaStreamDscp,
  pktcSigDevVmwiMode,
  pktcSigCapabilityType,
  pktcSigCapabilityVersion,
  pktcSigCapabilityVendorExt,
  pktcSigDefNcsReceiveUdpPort
```

```
    }
    STATUS current
    DESCRIPTION
        "Group of MIB objects containing signaling configuration
         information that is applicable per-device."
    ::= { pktcSigGroups 1 }

  pktcSigEndpointGroup  OBJECT-GROUP
    OBJECTS {
    pktcSigEndPntConfigCallAgentId,
    pktcSigEndPntConfigCallAgentUdpPort,

    pktcSigEndPntConfigPartialDialTO,
    pktcSigEndPntConfigCriticalDialTO,
    pktcSigEndPntConfigBusyToneTO,
    pktcSigEndPntConfigDialToneTO,
    pktcSigEndPntConfigMessageWaitingTO,
    pktcSigEndPntConfigOffHookWarnToneTO,
    pktcSigEndPntConfigRingingTO,
    pktcSigEndPntConfigRingBackTO,
    pktcSigEndPntConfigReorderToneTO,
    pktcSigEndPntConfigStutterDialToneTO,
    pktcSigEndPntConfigTSMax,
    pktcSigEndPntConfigMax1,
    pktcSigEndPntConfigMax2,
    pktcSigEndPntConfigMax1QEnable,
    pktcSigEndPntConfigMax2QEnable,
    pktcSigEndPntConfigMWD,
    pktcSigEndPntConfigTdinit,
    pktcSigEndPntConfigTdmin,
    pktcSigEndPntConfigTdmax,
    pktcSigEndPntConfigRtoMax,
    pktcSigEndPntConfigRtoInit,
    pktcSigEndPntConfigLongDurationKeepAlive,
    pktcSigEndPntConfigThist,
    pktcSigEndPntConfigStatus,



    pktcSigEndPntConfigCallWaitingMaxRep,
    pktcSigEndPntConfigCallWaitingDelay,
    pktcSigEndPntStatusCallIpAddressType,
    pktcSigEndPntStatusCallIpAddress,
    pktcSigEndPntStatusError
     }
    STATUS current
    DESCRIPTION
        "Group of MIB objects containing signaling configuration
```

```
        information that is applicable per-endpoint."
    ::= { pktcSigGroups 2 }

pktcInternationalGroup    OBJECT-GROUP
    OBJECTS {
    pktcSigEndPntConfigMinHookFlash,
    pktcSigEndPntConfigMaxHookFlash,
    pktcSigEndPntConfigPulseDialInterdigitTime,
    pktcSigEndPntConfigPulseDialMinMakeTime,
    pktcSigEndPntConfigPulseDialMaxMakeTime,
    pktcSigEndPntConfigPulseDialMinBreakTime,
    pktcSigEndPntConfigPulseDialMaxBreakTime,
    pktcSigDevRingCadence,
    pktcSigDevCidSigProtocol,
    pktcSigDevCidDelayAfterLR,
    pktcSigDevCidDtmfStartCode,
    pktcSigDevCidDtmfEndCode,
    pktcSigDevVmwiSigProtocol,
    pktcSigDevVmwiDelayAfterLR,
    pktcSigDevVmwiDtmfStartCode,
    pktcSigDevVmwiDtmfEndCode,
    pktcSigDevrpAsDtsDuration,
    pktcSigDevCidMode,
    pktcSigDevCidAfterRing,
    pktcSigDevCidAfterDTAS,
    pktcSigDevCidAfterRPAS,
    pktcSigDevRingAfterCID,
     pktcSigDevCidDTASAfterLR,
    pktcSigDevVmwiMode,
    pktcSigDevVmwiAfterDTAS,
    pktcSigDevVmwiAfterRPAS,
    pktcSigDevVmwiDTASAfterLR,
    pktcSigPowerRingFrequency,
    pktcSigPulseSignalFrequency,
    pktcSigPulseSignalDbLevel,
    pktcSigPulseSignalDuration,
    pktcSigPulseSignalPulseInterval,
    pktcSigPulseSignalRepeatCount,
    pktcSigDevToneDbLevel,



    pktcSigDevToneFreqCounter,
    pktcSigDevToneWholeToneRepeatCount,
    pktcSigDevToneSteady,
    pktcSigDevToneFirstFreqValue,
    pktcSigDevToneSecondFreqValue,
    pktcSigDevToneThirdFreqValue,
```

```
  pktcSigDevToneFourthFreqValue,
  pktcSigDevToneFreqMode,
  pktcSigDevToneFreqAmpModePrtg,
  pktcSigDevToneFreqOnDuration,
  pktcSigDevToneFreqOffDuration,
  pktcSigDevToneFreqRepeatCount
  }
  STATUS current
  DESCRIPTION
     " Group of objects that extend the behavior of existing
       objects to support operations in the widest possible set
       of international marketplaces.
   Note that many of these
       objects represent a superset of behaviors described in
       other objects within this MIB module."
  ::= { pktcSigGroups 3 }

pktcLLinePackageGroup  OBJECT-GROUP
  OBJECTS {
  pktcSigDevR0Cadence,
  pktcSigDevR1Cadence,
  pktcSigDevR2Cadence,
  pktcSigDevR3Cadence,
  pktcSigDevR4Cadence,
  pktcSigDevR5Cadence,
  pktcSigDevR6Cadence,
  pktcSigDevR7Cadence,
  pktcSigDevRgCadence,
  pktcSigDevRsCadence
  }
  STATUS current
  DESCRIPTION
  "Group of Objects to support the L line package."
  ::= { pktcSigGroups 4 }

pktcELinePackageGroup  OBJECT-GROUP
  OBJECTS {
  pktcSigDevR0Cadence,
  pktcSigDevR1Cadence,
  pktcSigDevR2Cadence,
  pktcSigDevR3Cadence,
  pktcSigDevR4Cadence,
  pktcSigDevR5Cadence,



  pktcSigDevR6Cadence,
  pktcSigDevR7Cadence,
```

pktcSigDevRgCadence,
pktcSigDevRsCadence,
pktcSigPulseSignalFrequency,
pktcSigPulseSignalDbLevel,
pktcSigPulseSignalDuration,
pktcSigPulseSignalPulseInterval,
pktcSigPulseSignalRepeatCount,
pktcSigDevRingCadence
}
STATUS current
DESCRIPTION
"Group of Objects to support the E line package."
::= { pktcSigGroups 5 }

END

Found in path(s):
* /mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-SIG-MIB

1.188 springsource-javax-jms 1.1.0

1.188.1 Available under license :

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/*
* @(#)ObjectMessage.java 1.19 02/04/09
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/*
* @(#)ResourceAllocationException.java 1.4 01/02/16
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* @(#)ServerSessionPool.java 1.12 02/04/09
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/*
* @(#)StreamMessage.java 1.40 02/04/09
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/*
* @(#)MessageProducer.java 1.25 02/04/09
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* @(#)Destination.java 1.16 02/04/09
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/*
* @(#)InvalidClientIDException.java 1.8 02/04/09
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* @(#)Topic.java 1.17 02/04/09
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* @(#)TopicPublisher.java 1.30 02/04/09
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* @(#)QueueConnection.java 1.22 02/04/10
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* @(#)ConnectionFactory.java 1.11 02/04/09
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/*
* @(#)InvalidDestinationException.java 1.8 02/04/09
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* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/InvalidDestinationException.java
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* @(#)DeliveryMode.java 1.9 02/04/09
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* @(#)QueueReceiver.java 1.21 02/04/09
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/*
* @(#)TemporaryQueue.java 1.13 02/04/09
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/*
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* @(#)ExceptionListener.java 1.8 02/04/09
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* @(#)XAQueueSession.java 1.11 02/04/09
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Found in path(s):
* /com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XAQueueSession.java
No license file was found, but licenses were detected in source scan.

/*
* @(#)InvalidSelectorException.java 1.6 02/04/09
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* @(#)TemporaryTopic.java 1.11 02/04/09
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* @(#)XATopicSession.java 1.12 02/04/09
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* @(#)JMSSecurityException.java 1.8 02/04/09
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* @(#)Session.java 1.44 02/04/10
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/*
* @(#)JMSException.java 1.15 02/04/09
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/*
* @(#)TopicSubscriber.java 1.28 02/04/09
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* @(#)MessageNotReadableException.java 1.7 02/04/09
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/*
* @(#)TopicRequestor.java 1.20 02/04/09
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/*
* @(#)QueueBrowser.java 1.20 02/04/09
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* @(#)QueueSession.java 1.26 02/04/09
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* @(#)TopicSession.java 1.40 02/04/10
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* @(#)QueueSender.java 1.29 02/04/09
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* @(#)XASession.java 1.18 02/04/09
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* @(#)TransactionInProgressException.java 1.8 02/04/09
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* @(#)XAConnection.java 1.8 02/04/09
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* @(#)XATopicConnectionFactory.java 1.14 02/04/09
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* @(#)QueueRequestor.java 1.21 02/04/09
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* @(#)MessageNotWriteableException.java 1.7 02/04/09
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/*
* @(#)XAQueueConnectionFactory.java 1.14 02/04/09
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* @(#)BytesMessage.java 1.31 02/04/09
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/*
* @(#)MessageFormatException.java 1.7 02/04/09
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* @(#)ConnectionConsumer.java 1.16 02/04/09
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/*
* @(#)TopicConnection.java 1.19 02/04/09
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No license file was found, but licenses were detected in source scan.

/*
* @(#)TransactionRolledBackException.java 1.7 02/04/09
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/*
* @(#)ResourceAllocationException.java 1.6 02/04/09
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/*
* @(#)XATopicConnection.java 1.17 02/04/09
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* @(#)XAQueueConnection.java 1.17 02/04/09
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* @(#)ConnectionMetaData.java 1.11 02/04/09
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/*
* @(#)TopicConnectionFactory.java 1.15 02/04/09
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* @(#)XAConnectionFactory.java 1.10 02/04/09
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/*
* @(#)IllegalStateException.java 1.7 02/04/09
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1.189 yang-model-api 0.8.4-Beryllium-SR4

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*
 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/LengthDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/MinDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/FutureDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/MaxDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/SizeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/privilegedactions/ConstructorInstance.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DigitsDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/CreditCardNumberDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NullDef.java
*

/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NotNullDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/PatternDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/ScriptAssertDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/RangeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DecimalMinDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/PastDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/CascadeDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintMapping.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/DecimalMaxDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/NotBlankDef.java
*
/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintsForType.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/ConstraintDefWrapper.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/GenericConstraintDef.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/cfg/defs/EmailDef.java
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zip/org/hibernate/validator/constraints/impl/MaxValidatorForNumber.java
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*
 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/ScriptAssert.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/annotationfactory/AnnotationProxy.java
* /hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/util/annotationfactory/AnnotationDescriptor.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/ScriptAssertValidator.java
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/NotEmpty.java
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ConstraintOrigin.java
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/AssertFalseValidator.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/SizeValidatorForArraysOfPrimitives.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/Email.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/ConstraintHelper.java
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 /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/constraints/impl/NotNullValidator.java
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/hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/engine/ValidationContext.java
* /hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/Version.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/metadata/BeanMetaDataImpl.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/LoggerFactory.java
* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/util/ReflectionHelper.java
* /hibernate-validator-4-1-0-final-sources-
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* /hibernate-validator-4-1-0-final-sources-zip/org/hibernate/validator/resourceloading/ResourceBundleLocator.java
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1.191 yang-model-util 0.8.4-Beryllium-SR4

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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/PropertyDescriptor.java
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* /validation-api-1-1-0-final-sources-5-jar/javax/validation/Path.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/Validator.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/ReportAsSingleViolation.java
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/validation-api-1-1-0-final-sources-5-jar/javax/validation/executable/ExecutableValidator.java
* /validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ReturnValueDescriptor.java
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jar/org/springframework/messaging/handler/annotation/support/MessageHandlerMethodFactory.java
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* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/PollableChannel.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageRequestReplyOperations.java
*
 /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/stomp/StompConversionException.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/SimpMessageType.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolutionException.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/broker/BrokerAvailabilityEvent.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/SubscribableChannel.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/BeanFactoryMessageChannelDestinationResolver.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageSendingOperations.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/MessageDeliveryException.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/annotation/support/PrincipalMethodArgumentResolver.java
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 /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageReceivingOperations.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/tcp/FixedIntervalReconnectStrategy.java
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jar/org/springframework/messaging/simp/annotation/support/MissingSessionUserException.java
* /spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/support/ChannelInterceptorAdapter.java
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jar/org/springframework/messaging/simp/user/MultiServerUserRegistry.java
* /spring-messaging-4-3-30-release-sources-
jar/org/springframework/messaging/handler/invocation/AsyncHandlerMethodReturnValueHandler.java
*
 /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/stomp/StompSession.java
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jar/org/springframework/messaging/simp/config/AbstractMessageBrokerConfiguration.java
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* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/support/AbstractHeaderMapper.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/tcp/reactor/Reactor2TcpClient.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/handler/annotation/support/HeadersMethodArgumentResolver.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/broker/AbstractBrokerMessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/broker/SimpleBrokerMessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/handler/invocation/AbstractMethodMessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/broker/DefaultSubscriptionRegistry.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/user/UserDestinationMessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/annotation/support/SimpAnnotationMethodMessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/MessageHandler.java
* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/user/DefaultUserDestinationResolver.java
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*/
/**
  * Set the max pool size of the ThreadPoolExecutor.
  * <p><strong>NOTE:</strong> When an unbounded
  * {@link #queueCapacity(int) queueCapacity} is configured (the default), the
  * max pool size is effectively ignored. See the "Unbounded queues" strategy
  * in {@link java.util.concurrent.ThreadPoolExecutor
 ThreadPoolExecutor} for
  * more details.
  * <p>By default this is set to {@code Integer.MAX_VALUE}.
  */
```

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* /spring-messaging-4-3-30-release-sources-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java

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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageBuilders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2UnknownFrame.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/MultiDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/SuppressForbidden.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/uptime/UptimeServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketScheme.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TraceDnsQueryLifeCycleObserverFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/uptime/UptimeServerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/internal/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStreamProviders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsCacheEntry.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/UniSequentialDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/UnixResolverDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PriorityQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/NettyRuntime.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserver.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamChannelId.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserverFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
```

```
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
```

```
*            if (<b>loggedIn</b>) {
*                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*            } else {
*                fail();
*            }
*        }
 *     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
```

```
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state
 of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
```

* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/ocsp/Digester.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/ocsp/OcspUtils.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/HttpServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2RequestHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http1RequestHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQuestion.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseCode.java

* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Html.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Launcher.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseEncoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2OrHttpHandler.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/Socket.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuery.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java

* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/Http2Server.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/AddressResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/UnixChannel.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/cors/OkResponseHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/ValueConverter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamVisitor.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/StreamBufferingEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MathUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/ByteProcessor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java
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* under the License.
*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

  */
```

Found in path(s):
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava6.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java
*

/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultChannelHandlerContext.java
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Found in path(s):
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

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Found in path(s):
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
```

```
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
```

```
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |      |
  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
```

```
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
 *
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
```

```
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSL.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/Library.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/Buffer.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.proto
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/Cleaner.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava9.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/SocksServerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/Constant.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/InternalAttribute.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/factorial/BigIntegerDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/file/FileServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/discard/DiscardServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/timeout/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/cors/HttpCorsServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/server/WebSocketFrameHandler.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/server/WebSocketIndexPageHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpResponseEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/SocksServerUtils.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/upload/HttpUploadServerInitializer.java

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/package-info.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/JdkLoggerFactory.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/example/echo/EchoServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/securechat/SecureChatServerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/FileUpload.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/LastHttpContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/DirectClientHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/localecho/LocalEcho.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/telnet/TelnetServerInitializer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/portunification/PortUnificationServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpObjectAggregator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
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* <p>
*
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisBulkStringAggregator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/package-info.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/FullBulkStringRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java
* /netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatBrokerHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
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 /netty-all-4-1-46-final-sources-jar/io/netty/example/mqtt/heartBeat/MqttHeartBeatClient.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TcpDnsQueryContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/CleanerJava6Substitution.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/EmptyByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakDetector.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /netty-all-4-1-46-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/package-info.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameListener.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java

* /netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/package-info.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert
 Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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*/
/**
    * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
    * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
    * Allowing them being read would mean anyone with access to the channel could get them.

  */
/**
    * Set the {@code TCP_QUICKACK} option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK
    * for more details.
    */

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* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscUnboundedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseLinkedQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingIdentityHashMap.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedQueueNode.java

*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscLinkedQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/IndexedQueueSizeUtil.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcArrayQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
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/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java

* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
*
/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java
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* /netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
*
 /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
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*
/validation-api-1-0-0-ga-sources-jar/javax/validation/Configuration.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidator.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/ConstraintDescriptor.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidationProviderResolver.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidatorContext.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/PropertyDescriptor.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintViolationException.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidatorContext.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/TraversableResolver.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/Payload.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/BeanDescriptor.java
*
/validation-api-1-0-0-ga-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/OverridesAttribute.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/Path.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/DecimalMin.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/AssertTrue.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Pattern.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/Constraint.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Digits.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Null.java
* /validation-api-1-0-0-ga-sources-jar/javax/validation/ValidationException.java

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jar/org/springframework/expression/spel/SpelEvaluationException.java
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* /spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringSessionContext.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/support/OpenSessionInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/SpringHibernateEjbPersistenceProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/LocalSessionFactoryBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/ConfigurableJtaPlatform.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/LocalEntityManagerFactoryBean.java
*
 /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/HibernateDaoSupport.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerFactoryAccessor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/OpenJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/support/HibernateDaoSupport.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/OpenSessionInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/DefaultJpaDialect.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/OpenJpaVendorAdapter.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/annotation/AnnotationSessionFactoryBean.java
*
 /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaTransactionManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateOperations.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/OpenSessionInViewInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateAccessor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateTransactionManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/LocalSessionFactoryBuilder.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringFlushSynchronization.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalSessionFactoryBean.java
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*/
/**
  * Create a transactional EntityManager proxy for the given EntityManagerFactory.
  * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
  * @param properties the properties to be passed into the
  * {@code createEntityManager} call (may be {@code null})
  * @param entityManagerInterfaces
 the interfaces to be implemented by the
  * EntityManager. Allows the addition or specification of proprietary interfaces.
  * @return a shareable transactional EntityManager proxy
  */
```

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* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/vendor/SpringHibernateJpaPersistenceProvider.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java
*
 /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-

jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateTemplate.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/OpenSessionInViewFilter.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringSessionSynchronization.java
*
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jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewFilter.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/PersistenceManagerHolder.java
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* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoSystemException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/IdTransferringMergeEventListener.java
*
 /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/TransactionAwareDataSourceConnectionProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateQueryException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobByteArrayType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobStringType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaOptimisticLockingFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringTransactionFactory.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalTransactionManagerLookup.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalJtaDataSourceConnectionProvider.java
*
 /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringSessionSynchronization.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/AbstractSessionFactoryBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SessionHolder.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/AbstractLobType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateExceptionTranslator.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringSessionContext.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalDataSourceConnectionProvider.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/BlobSerializableType.java
*
 /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/ScopedBeanInterceptor.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SessionHolder.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoUsageException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateExceptionTranslator.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateObjectRetrievalFailureException.java

* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/TypeDefinitionBean.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/vendor/Database.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateJdbcException.java
* /spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jdo/JdoOptimisticLockingFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateQueryException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateJdbcException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateSystemException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateSystemException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerProxy.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/JdoResourceFailureException.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/ClobStringType.java
* /spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/SpringJtaSessionContext.java
*
/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/EntityManagerFactoryInfo.java

1.205 spring-jdbc 4.3.19.RELEASE

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jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameter.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-

jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java
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* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
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/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
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* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
*
/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java
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jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java
*
/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcCall.java

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcAccessor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
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/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* {@link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
 * proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/
```

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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @throws SQLException if a SQLException is encountered setting
  * parameter values (that is, there's no need to catch SQLException)
  * @return Map of input parameters, keyed by name (never {@code null})
  */
```

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*/
/**
* {@link LobHandler} implementation for Oracle databases. Uses proprietary API
* to create {@code oracle.sql.BLOB} and {@code oracle.sql.CLOB}
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!
*
* <p>While most databases
 are able to work with {@link DefaultLobHandler},
* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
* Blob/Clob instances created via its own proprietary BLOB/CLOB API,
* and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
* this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
* (which still supports access to Oracle 9i databases).
*
* <p><b>NOTE: As of Oracle 10.2, {@link DefaultLobHandler} should work equally
* well out of the box. On Oracle 11g, JDBC 4.0 based options such as
* {@link DefaultLobHandler#setStreamAsLob} and {@link DefaultLobHandler#setCreateTemporaryLob}
* are available as well, rendering this proprietary OracleLobHandler obsolete.</b>
* Also, consider upgrading to a new driver even when accessing an older database.
* See the {@link LobHandler} interface javadoc for a summary of recommendations.
*
* <p>Needs to
 work on a native JDBC Connection, to be able to cast it to
* {@code oracle.jdbc.OracleConnection}. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate {@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor}
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.
*
* <p>Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
* this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.
*
* @author Juergen Hoeller
 * @author Thomas Risberg
* @since 04.12.2003
```

* @see DefaultLobHandler
* @see #setNativeJdbcExtractor
* @deprecated in favor of {@link DefaultLobHandler} for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* {@link DefaultLobHandler#setCreateTemporaryLob} is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
*
 /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcpNativeJdbcExtractor.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHolder.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
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/**
* Abstraction for handling large binary fields and large text fields in
* specific databases, no matter if represented as simple types or Large OBjects.
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
* {@link OracleLobHandler}; most other databases should be able to work
*
 with the provided {@link DefaultLobHandler}.
*
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
* LobCreators are typically instantiated for each statement execution or for
* each transaction; they are not thread-safe because they might track
* allocated database resources in order to free them after execution.
*
* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
* which by default delegates to JDBC's direct accessor methods, avoiding the
* {@code java.sql.Blob} and {@code java.sql.Clob} API completely.
* {@link DefaultLobHandler} can also be configured to access LOBs using
* {@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
* setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.
*
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and
 additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g+ JDBC driver will work with {@link DefaultLobHandler}
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
* there should be no need to use {@link OracleLobHandler} at all anymore.
*
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's
 numbers as a guideline).
*
```

```
* <p><b>Summarizing the recommended options (for actual LOB fields):</b>
* <ul>
* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use {@link DefaultLobHandler},
* potentially with {@code streamAsLob=true} if your database driver requires that
* hint when populating a LOB field. Fall back to {@code createTemporaryLob=true}
* if you happen to run into LOB size limitations with your (Oracle) database setup.
* <li><b>Oracle 10g driver:</b> Use {@link DefaultLobHandler} with standard setup.
* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
* DefaultLobHandler should work with standard setup out of the box. Alternatively,
* consider using the proprietary {@link OracleLobHandler} (see below).
* <li><b>Oracle 9i driver:</b> Use {@link OracleLobHandler} with a connection-pool-specific
* {@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor}.
* <li><b>PostgreSQL:</b> Configure {@link DefaultLobHandler}
 with {@code wrapAsLob=true},
* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
* <li>For all other database drivers (and for non-LOB fields that might potentially
* turn into LOBs on some databases): Simply use a plain {@link DefaultLobHandler}.
* </ul>
*
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/CustomSQLErrorCodesTranslation.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/StoredProcedure.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcOperations.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchUpdateUtils.java
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jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
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jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
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jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcTemplate.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java

* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
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/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and Development
* by Rod Johnson (Wrox, 2002).
*/

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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p><b>NOTE</b>: Needs to be invoked after the involved
```

PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

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* /spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
*
 /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowCallbackHandler.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreatorUtils.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcDaoSupport.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlUpdate.java
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* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/JtaLobCreatorSynchronization.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java

1.206 spring-binding 2.5.1.RELEASE

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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/format/package-info.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/SpringConvertingConverterAdapter.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/beanwrapper/package-info.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/package-info.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/TwoWayCapableConversionExecutor.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/message/MessageBuilder.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/package-info.java
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jar/org/springframework/binding/expression/support/FluentParserContext.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodKey.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/CompositeStringExpression.java
* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToByte.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToCharacter.java
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 /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpressionParser.java
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* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/expression/spel/SpringELExpression.java
* /spring-binding-2-5-1-release-sources-2-
jar/org/springframework/binding/mapping/impl/DefaultMappingResults.java
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jar/org/springframework/binding/method/MethodInvocationException.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/Mapping.java
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* /spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/ExpressionParser.java

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1.207 spring-webmvc-portlet 4.3.19.RELEASE

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* /spring-webmvc-portlet-4-3-19-release-sources-2-jar/org/springframework/web/portlet/bind/annotation/RenderMapping.java
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1.208 spring-oxm 4.3.19.RELEASE

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* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/jaxb/ClassPathJaxb2TypeScanner.java
* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/jaxb/Jaxb2Marshaller.java
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* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/castor/CastorMarshaller.java
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* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/support/AbstractMarshaller.java
* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/Marshaller.java
* /spring-oxm-4-3-19-release-sources-3-jar/org/springframework/oxm/Unmarshaller.java

1.209 spring-aspects 4.3.19.RELEASE

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* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
*
 /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj

* /spring-aspects-4-3-19-release-sources-2-jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
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jar/org/springframework/beans/factory/aspectj/GenericInterfaceDrivenDependencyInjectionAspect.aj
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jar/org/springframework/transaction/aspectj/JtaAnnotationTransactionAspect.aj
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteAccessException.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
 * @author Stephane Nicoll
* @since 4.1
*/
```

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jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/FormatterRegistry.java
*
/spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedNotification.java
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jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
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jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/config/CacheManagementConfigUtils.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/support/ContextTypeMatchClassLoader.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/CompositeCacheManager.java
*
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jar/org/springframework/context/annotation/AnnotationBeanNameGenerator.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/ValidationUtils.java
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jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
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jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
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jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/PropertySources.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
*
/spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/assembler/MethodExclusionMBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/DefaultKeyGenerator.java
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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/DateTimeFormatAnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
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jar/org/springframework/context/support/GenericGroovyApplicationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/BasicOperation.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/CacheManager.java
*
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jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
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jar/org/springframework/format/datetime/standard/DateTimeContext.java
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jar/org/springframework/ejb/interceptor/SpringBeanAutowiringInterceptor.java
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 /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/Lazy.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ProfileCondition.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/KeyGenerator.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/LocalDateParser.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/DateTimeFormatterFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/JndiRmiClientInterceptor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/i18n/SimpleLocaleContext.java
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/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ScopedProxyMode.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/ScriptFactory.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConfigurationMethod.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ui/ModelMap.java
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* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/context/annotation/ContextAnnotationAutowireCandidateResolver.java
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/spring-context-4-3-19-release-sources-3-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/jruby/JRubyScriptFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventPublicationInterceptor.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-4-3-19-release-sources-3-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
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* /spring-context-4-3-19-release-sources-3-
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/NullValue.java
* /spring-context-4-3-19-release-sources-3-
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/AnnotatedElementKey.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/MessageSourceAccessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/MetricType.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/websphere/WebSphereLoadTimeWeaver.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/support/SimpleCacheManager.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/MessageSourceSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ConditionContext.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExporter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/assembler/AbstractReflectiveMBeanInfoAssembler.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/CachingConfigurer.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/JmxUtils.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/support/MBeanRegistrationSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/SpringCacheAnnotationParser.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/AbstractMessageSource.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java

* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
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 /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/rmi/RmiServiceExporter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/ConfigurableApplicationContext.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/SmartLifecycle.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheResolver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/AsyncConfigurationSelector.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/Scheduled.java
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 /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/GenericApplicationListener.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/event/EventListenerMethodProcessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scheduling/annotation/EnableAsync.java
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*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.

```
*
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative
 to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* <p>See the javadocs for WebSphere's
* <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>
* and <a href="http://bit.ly/TRlX2r">{@code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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* limitations under the License.
*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
* <p>The
 {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
```

```
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/scripting/config/LangNamespaceUtils.java
*
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiAccessor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/SpringModelMBean.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
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* /spring-context-4-3-19-release-sources-3-jar/org/springframework/context/access/ContextSingletonBeanFactoryLocator.java
*
 /spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java
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* /spring-context-4-3-19-release-sources-3-

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* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheCache.java
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* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java
*
/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/JCacheOperationSourcePointcut.java
* /spring-context-support-4-3-19-release-sources-2-

jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
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Found in path(s):
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailParseException.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
*
 /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailSendException.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailPreparationException.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailAuthenticationException.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/velocity/VelocityEngineFactoryBean.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/MimeMessagePreparator.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/DelegatingJob.java
*
 /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
* /spring-context-support-4-3-19-release-sources-2-

jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/SpringResourceLoader.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailException.java
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Found in path(s):
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/guava/GuavaCache.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java
*
 /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java
* /spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
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Found in path(s):
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineUtils.java
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##

##
#
Defaults for the Java Activation Framework (revised).
Modified extensions registered
 in this file:
text/plain   java c c++ cpp pl cc h
image/png   png
#
##

text/html   html htm HTML HTM
text/plain   txt text TXT TEXT java c c++ cpp pl cc h
image/gif   gif GIF
image/ief   ief
image/jpeg   jpeg jpg jpe JPG
image/tiff   tiff tif

```
image/x-xwindowdump   xwd
application/postscript   ai eps ps
application/rtf    rtf
application/x-tex   tex
application/x-texinfo   texinfo texi
application/x-troff   t tr roff
audio/basic    au
audio/midi    midi mid
audio/x-aifc    aifc
audio/x-aiff    aif aiff
audio/x-mpeg    mpeg mpg
audio/x-wav    wav
video/mpeg    mpeg mpg mpe
video/quicktime    qt mov
video/x-msvideo    avi

################################################################################
#
# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.
#
################################################################################

#
 TEXT TYPES

text/x-speech    talk
text/css    css
text/csv    csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap    xbm
# X-Windows pixelmap (8-bit color)
image/x-xpixmap    xpm
# Portable Network Graphics
image/png    png
# Image Exchange Format (RFC 1314)
image/ief    ief
# RGB
image/rgb    rgb
# Group III Fax (RFC 1494)
image/g3fax    g3f
# X Windowdump format
image/x-xwindowdump   xwd
# Macintosh PICT format
```

image/x-pict pict
PPM (UNIX PPM package)
image/x-portable-pixmap ppm
PGM (UNIX PPM package)
image/x-portable-graymap pgm
PBM (UNIX PPM package)
image/x-portable-bitmap pbm
PNM (UNIX PPM package)
image/x-portable-anymap pnm
Microsoft Windows bitmap
image/x-ms-bmp bmp
CMU raster
image/x-cmu-raster ras
Kodak Photo-CD
image/x-photo-cd pcd
Computer Graphics Metafile
image/cgm cgm
CALS Type 1 or 2
image/x-cals mil cal
Fractal Image Format (Iterated Systems)
image/fif fif
#
QuickSilver active image (Micrografx)
image/x-mgx-dsf dsf
CMX vector image (Corel)
image/x-cmx cmx
Wavelet-compressed (Summus)
image/wavelet wi
AutoCad Drawing (SoftSource)
image/vnd.dwg dwg
AutoCad DXF file (SoftSource)
image/vnd.dxf dxf
Simple Vector Format (SoftSource)
image/vnd.svf svf

AUDIO/VOICE/MUSIC RELATED TYPES

"""basic""audio - 8-bit u-law PCM"
audio/basic au snd
Macintosh audio format (AIpple)
audio/x-aiff aif aiff aifc
Microsoft audio
audio/x-wav wav
MPEG audio
audio/x-mpeg mpa abs mpega
MPEG-2 audio
audio/x-mpeg-2 mp2a mpa2
compressed speech (Echo Speech Corp.)

audio/echospeech es
Toolvox speech audio (Voxware)
audio/voxware vox
RapidTransit compressed audio (Fast Man)
application/fastman lcc
Realaudio (Progressive Networks)
application/x-pn-realaudio ra ram
MIDI music data
x-music/x-midi mmid
Koan music data (SSeyo)
application/vnd.koan skp
Speech synthesis data (MVP Solutions)
text/x-speech talk

#
VIDEO TYPES

MPEG video
video/mpeg mpeg mpg mpe
MPEG-2 video
video/mpeg-2 mpv2 mp2v
Macintosh Quicktime
video/quicktime qt mov
Microsoft video
video/x-msvideo avi
SGI Movie format
video/x-sgi-movie movie
VDOlive streaming video (VDOnet)
video/vdo vdo
Vivo streaming video (Vivo software)
video/vnd.vivo viv

SPECIAL HTTP/WEB APPLICATION TYPES

Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice

TEXT-RELATED

PostScript
application/postscript ai eps ps
Microsoft Rich Text Format
application/rtf rtf
Adobe Acrobat PDF
application/pdf pdf
Maker Interchange Format (FrameMaker)

application/vnd.mif mif
Troff document
application/x-troff t tr roff
Troff document with MAN macros
application/x-troff-man man
Troff document with ME macros
application/x-troff-me me
Troff document with MS macros
application/x-troff-ms ms
#
LaTeX document
application/x-latex latex
Tex/LateX document
application/x-tex tex
GNU TexInfo document
application/x-texinfo texinfo texi
TeX dvi format
application/x-dvi dvi
MS word document
application/msword doc DOC
Office Document Architecture
application/oda oda
Envoy Document
application/envoy evy

ARCHIVE/COMPRESSED ARCHIVES

Gnu tar format
application/x-gtar gtar
4.3BSD tar format
application/x-tar tar
POSIX tar format
application/x-ustar ustar
Old CPIO format
application/x-bcpio bcpio
POSIX CPIO format
application/x-cpio cpio
UNIX sh shell archive
application/x-shar shar
DOS/PC - Pkzipped archive
application/zip zip
Macintosh Binhexed archive
application/mac-binhex40 hqx
Macintosh Stuffit Archive
application/x-stuffit sit sea
Fractal Image Format
application/fractals fif
"Binary UUencoded"

application/octet-stream bin uu
PC executable
application/octet-stream exe
"WAIS ""sources"""
application/x-wais-source src
 wsrc
NCSA HDF data format
application/hdf   hdf

DOWNLOADABLE PROGRAM/SCRIPTS

Javascript program
text/javascript   js ls mocha
UNIX bourne shell program
application/x-sh   sh
UNIX c-shell program
application/x-csh   csh
Perl program
application/x-perl   pl
Tcl (Tool Control Language) program
application/x-tcl   tcl

ANIMATION/MULTIMEDIA

FutureSplash vector animation (FutureWave)
application/futuresplash spl
mBED multimedia data (mBED)
application/mbedlet   mbd
PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

PRESENTATION

PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
ASAP WordPower (Software Publishing Corp.)
application/x-asap   asp
Astound Web Player multimedia data (GoldDisk)
application/astound   asn

SPECIAL EMBEDDED OBJECT

OLE script e.g. Visual Basic (Ncompass)
application/x-olescript   axs
OLE Object (Microsoft/NCompass)
application/x-oleobject   ods
OpenScape

OLE/OCX objects (Business@Web)
x-form/x-openscape opp
Visual Basic objects (Amara)
application/x-webbasic wba
Specialized data entry forms (Alpha Software)
application/x-alpha-form frm
client-server objects (Wayfarer Communications)
x-script/x-wfxclient wfx

GENERAL APPLICATIONS

Undefined binary data (often executable progs)
application/octet-stream exe com
Pointcast news data (Pointcast)
application/x-pcn pcn
Excel spreadsheet (Microsoft)
application/vnd.ms-excel xls
PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt
Microsoft Project (Microsoft)
application/vnd.ms-project mpp
SourceView document (Dataware Electronics)
application/vnd.svd svd
Net Install - software install (20/20 Software)
application/x-net-install ins
Carbon Copy - remote control/access (Microcom)
application/ccv ccv
Spreadsheets (Visual Components)
workbook/formulaone vts

2D/3D DATA/VIRTUAL REALITY TYPES

VRML data file
x-world/x-vrml wrl vrml
WIRL -
VRML data (VREAM)
x-world/x-vream vrw
Play3D 3d scene data (Play3D)
application/x-p3d p3d
Viscape Interactive 3d world data (Superscape)
x-world/x-svr svr
WebActive 3d data (Plastic Thought)
x-world/x-wvr wvr
QuickDraw3D scene data (Apple)
x-world/x-3dmf 3dmf

SCIENTIFIC/MATH/CAD TYPES

Mathematica notebook
application/mathematica ma
Computational meshes for numerical simulations
x-model/x-mesh msh
Vis5D 5-dimensional data
application/vis5d v5d
IGES models -- CAD/CAM (CGM) data
application/iges igs
Autocad WHIP vector drawings
drawing/x-dwf dwf

Found in path(s):
* /spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/mime.types

1.212 spring-web 4.3.19.RELEASE

1.212.1 Available under license :

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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/GenericHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/ServletWebRequest.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/SessionStatus.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/support/WebBindingInitializer.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/WebDataBinder.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/CookieGenerator.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
*
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/LiveBeansViewServlet.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/support/AsyncHttpAccessor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/request/async/CallableProcessingInterceptor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriTemplate.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ContentNegotiationManager.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/HttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/StringHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/ResponseEntity.java
*
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/EscapedErrors.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/remoting/httpinvoker/HttpInvokerClientInterceptor.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/bind/UnsatisfiedServletRequestParameterException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/json/GsonFactoryBean.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/ResourceRegionHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriUtils.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/JavaScriptUtils.java
*
 /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/context/support/ServletContextAttributeExporter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/GenericFilterBean.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/RestTemplate.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/DelegatingFilterProxy.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
* /spring-web-4-3-19-release-sources-3-
jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
*

/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ExceptionHandlerMethodResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/accept/ServletPathExtensionContentNegotiationStrategy.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/ResourceHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/ResponseStatus.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpInvokerServiceExporter.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/commons/CommonsMultipartFile.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/HttpComponentsStreamingClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/AbstractHttpInvokerRequestExecutor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/InterceptingAsyncClientHttpRequest.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/MultipartFile.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/SimpleHttpInvokerServiceExporter.java
*
/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/CharacterEncodingFilter.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpResponse.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/AsyncRestTemplate.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/bind/annotation/RestController.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/ResponseErrorHandler.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/UriComponents.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/commons/CommonsFileUploadSupport.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
*

/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/util/ContentCachingRequestWrapper.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/httpinvoker/HttpComponentsHttpInvokerRequestExecutor.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/HttpStatus.java
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/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/support/UriComponentsContributor.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/http/client/ClientHttpRequestFactory.java
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/spring-web-4-3-19-release-sources-3-
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
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* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
* /spring-web-4-3-19-release-sources-3-jar/org/springframework/web/method/annotation/ExpressionValueMethodArgumentResolver.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
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jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java

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* /spring-aop-4-3-19-release-sources-3-
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/RootClassFilter.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
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jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
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jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/DynamicMethodMatcher.java
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 /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AdvisedSupportListener.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/SingletonTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/AdvisorComponentDefinition.java
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jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TrueClassFilter.java
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jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/ExpressionPointcut.java
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* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/Advised.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TargetClassAware.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
*
 /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/MethodMatchers.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TrueMethodMatcher.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/ProxyMethodInvocation.java
*
 /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/Pointcuts.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/CommonsPoolTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /spring-aop-4-3-19-release-sources-3-

jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java
*
/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /spring-aop-4-3-19-release-sources-3-
jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java

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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.groovy
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
*
 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeConverter.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/BeanFactoryReference.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/SimpleTypeConverter.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanInfoFactory.java
*
 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/TypedStringValue.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceListFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/el/SimpleSpringBeanELResolver.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
*
 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/annotation/QualifierAnnotationAutowireCandidateResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeMismatchException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/URIEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/YamlProcessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/ParserContext.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/InitializingBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyMatches.java
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 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanWrapperImpl.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/DirectFieldAccessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/TypeConverterDelegate.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/Mergeable.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/AbstractAutowireCapableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
*
 /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanUtils.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
*
 /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
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jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ReaderEventListener.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanNameGenerator.java
*
/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/DefaultsDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceFactoryBean.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyValuesEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataElement.java
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/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ParseState.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/BeanReference.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/InvalidPropertyException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/DocumentLoader.java
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jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/AliasDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/PropertyComparator.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
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jar/org/springframework/beans/factory/annotation/AnnotationBeanWiringInfoResolver.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/ConversionNotSupportedException.java
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/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java

* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/PatternEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/SmartInstantiationAwareBeanPostProcessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataAttributeAccessor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/PropertiesEditor.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/BeanFactoryAware.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/MethodReplacer.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/xml/NamespaceHandlerSupport.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/support/ArgumentConvertingMethodInvoker.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/FatalBeanException.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/ComponentDefinition.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/support/ManagedMap.java
* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/BeanMetadataAttribute.java
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* /spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/access/BeanFactoryLocator.java
* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-
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* /spring-beans-4-3-19-release-sources-2-
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
*
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jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java

* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionalProxy.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
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 /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/TransactionTemplate.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Transactional.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/event/TransactionalEventListener.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/TxNamespaceHandler.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/OptimisticLockingFailureException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/RecoverableDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/EmptyResultDataAccessException.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionSystemException.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/UnexpectedRollbackException.java
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* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/NonTransientDataAccessException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/annotation/Isolation.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
*
/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
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* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
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1.216 spring-jms 4.3.19.RELEASE

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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/CachedMessageProducer.java
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jar/org/springframework/jms/listener/endpoint/JmsMessageEndpointManager.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/adapter/JmsResponse.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/SimpleMessageListenerContainer.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/remoting/JmsInvokerClientInterceptor.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/JmsResourceHolder.java
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 /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/core/JmsMessagingTemplate.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/JmsTransactionManager.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/AbstractMessageListenerContainer.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/adapter/AbstractAdaptableMessageListener.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/AbstractJmsListenerEndpoint.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/JmsListenerEndpointRegistrar.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/CachingConnectionFactory.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/TransactionAwareConnectionFactoryProxy.java
*

/spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/MethodJmsListenerEndpoint.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/annotation/JmsListenerAnnotationBeanPostProcessor.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/support/JmsHeaderMapper.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/support/converter/SimpleMessageConverter.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/support/JmsMessageHeaderAccessor.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/AbstractJmsListenerContainerFactory.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/annotation/JmsListener.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/support/SimpleJmsHeaderMapper.java
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/spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/annotation/EnableJms.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/JmsListenerEndpointRegistry.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/JmsListenerContainerParser.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/AbstractListenerContainerParser.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/config/SimpleJmsListenerContainerFactory.java
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/spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/annotation/JmsListenerConfigurer.java
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jar/org/springframework/jms/config/AnnotationDrivenJmsBeanDefinitionParser.java
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jar/org/springframework/jms/support/destination/DynamicDestinationResolver.java
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jar/org/springframework/jms/config/DefaultJcaListenerContainerFactory.java
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jar/org/springframework/jms/connection/SynchedLocalTransactionFailedException.java
* /spring-jms-4-3-19-release-sources-4-
jar/org/springframework/jms/support/converter/MessageConversionException.java
*
/spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/SessionProxy.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/CachedMessageConsumer.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/ChainedExceptionListener.java
* /spring-jms-4-3-19-release-sources-4-
jar/org/springframework/jms/support/destination/JndiDestinationResolver.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/InvalidSelectorException.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/support/destination/DestinationResolver.java

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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/MessageEOFException.java
* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/connection/SmartConnectionFactory.java
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jar/org/springframework/jms/listener/adapter/ListenerExecutionFailedException.java
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* /spring-jms-4-3-19-release-sources-4-jar/org/springframework/jms/listener/SessionAwareMessageListener.java
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jar/org/springframework/jms/listener/adapter/MessagingMessageListenerAdapter.java
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jar/org/springframework/jms/support/converter/MappingJackson2MessageConverter.java
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1.217 commons-dbcp 1.2.2.osgi

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1.220 httpclient 4.5.6

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*
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* /classgraph-4-8-65-sources-jar/io/github/classgraph/ClassInfo.java
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* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
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* /classgraph-4-8-65-sources-jar/io/github/classgraph/ModulePathInfo.java
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* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/ZipFileSlice.java
* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
* /classgraph-4-8-65-sources-jar/io/github/classgraph/MethodParameterInfo.java
* /classgraph-4-8-65-sources-jar/io/github/classgraph/ClassTypeSignature.java
* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/recycler/Recycler.java
* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/recycler/Resettable.java
* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/json/JSONUtils.java
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* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileReader.java
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* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/fileslice/Slice.java
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* /classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessReader.java
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*
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*
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1.224 lz4 1.2.0

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*/

Found in path(s):
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4UnsafeUtils.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashJNI.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4BlockOutputStream.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Factory.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Constants.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4HCJNICompressor.java
*
 /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Exception.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4FastDecompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashConstants.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/StreamingXXHash32JNI.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/util/Native.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNICompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/util/UnsafeUtils.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHashFactory.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/util/Utils.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4BlockInputStream.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/XXHash32JNI.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Decompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/StreamingXXHash32.java
*
 /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4SafeDecompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNI.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Utils.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4Compressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java

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Found in path(s):
* /lz4-1-2-0-sources-1-jar/overview.html
* /lz4-1-2-0-sources-1-jar/net/jpountz/lz4/package.html
* /lz4-1-2-0-sources-1-jar/net/jpountz/xxhash/package.html
* /lz4-1-2-0-sources-1-jar/net/jpountz/util/package.html

1.225 swagger-jaxrs2 2.1.2

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Manifest-Version: 1.0
Automatic-Module-Name: io.swagger.v3.jaxrs2
Bnd-LastModified: 1585747956629
Build-Jdk: 1.8.0_151
Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Mave
n repositories on https://oss.sonatype.org/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: swagger-jaxrs2
Bundle-SymbolicName: io.swagger.core.v3.swagger-jaxrs2
Bundle-Version: 2.1.2
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.v3.jaxrs2;version="2.1.2";uses:="com.faster
xml.jackson.annotation,com.fasterxml.jackson.databind.introspect,io.s
wagger.v3.jaxrs2.ext,io.swagger.v3.oas.annotations,io.swagger.v3.oas.
annotations.parameters,io.swagger.v3.oas.annotations.responses,io.swa
gger.v3.oas.annotations.security,io.swagger.v3.oas.integration.api,io
.swagger.v3.oas.models,io.swagger.v3.oas.models.media,io.swagger.v3.o
as.models.parameters,io.swagger.v3.oas.models.responses,io.swagger.v3
.oas.models.security,io.swagger.v3.oas.models.servers,javax.ws.rs,jav

ax.ws.rs.core,javax.ws.rs.ext",io.swagger.v3.jaxrs2.ext;version="2.1.
2";uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.data
bind,io.swagger.v3.jaxrs2,io.swagger.v3.oas.models,javax.ws.rs",io.sw
agger.v3.jaxrs2.integration;version="2.1.2";uses:="io.swagger.v3.jaxr
s2.integration.api,io.swagger.v3.oas.integration,io.swagger.v3.oas.in
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pache.commons.lang3.tuple,org.slf4j",io.swagger.v3.jaxrs2.integration
.api;version="2.1.2";uses:="io.swagger.v3.oas.integration.api,javax.s
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er.v3.jaxrs2.util;version="2.1.2";uses:="com.fasterxml.jackson.annota
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agger.v3.oas.models,io.swagger.v3.oas.models.parameters,javax.ws.rs"
implementation-version: 2.1.2
Import-Package: javax.ws.rs;version="2.0",javax.ws.rs.core;version="2.
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"[2.1,3)",io.swagger.v3.oas.annotations.tags;version="[2.1,3)",io.swa
gger.v3.oas.integration;version="[2.1,3)",io.swagger.v3.oas.integrati
on.api;version="[2.1,3)",io.swagger.v3.oas.models;version="[2.1,3)",i
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.models.info;version="[2.1,3)",io.swagger.v3.oas.models.media;version
="[2.1,3)",io.swagger.v3.oas.models.parameters;version="[2.1,3)",io.s
wagger.v3.oas.models.responses;version="[2.1,3)",io.swagger.v3.oas.mo
dels.security;version="[2.1,3)",io.swagger.v3.oas.models.servers;vers
ion="[2.1,3)",io.swagger.v3.oas.models.tags;version="[2.1,3)",javax.s
ervlet;version="[4.0,5)",javax.servlet.http;version="[4.0,5)",org.apa
che.commons.lang3;version="[3.7,4)",org.apache.commons.lang3.tuple;ve
rsion="[3.7,4)",org.slf4j;version="[1.7,2)"
mode: development

package: io.swagger
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs
2

Found in path(s):
* /swagger-jaxrs2-2-1-2-jar/META-INF/MANIFEST.MF

1.226 accessors-smart 1.2

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```

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* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/BeansAccess.java
* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/DynamicClassLoader.java
* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/Accessor.java
* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java

1.227 cglib 3.0

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1.228 json-smart 2.3

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1.229 terracotta-toolkit-runtime 5.4.0

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1.230 httpclient 3.10.0

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1.231 groovy 3.0.8

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/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

options {
  tokenVocab = GroovyLexer;
  contextSuperClass = GroovyParserRuleContext;
  superClass = AbstractParser;
}
```

```
@header {
  import java.util.Map;
  import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

  public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
     private Map metaDataMap = null;

     public GroovyParserRuleContext() {}

     public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
        super(parent, invokingStateNumber);
     }

     @Override
      public Map<?, ?> getMetaDataMap() {
        return this.metaDataMap;
     }

     @Override
     public void setMetaDataMap(Map<?, ?> metaDataMap) {
        this.metaDataMap = metaDataMap;
     }
  }

  @Override
  public int getSyntaxErrorSource() {
     return GroovySyntaxError.PARSER;
  }

  @Override
  public int getErrorLine() {
     Token token = _input.LT(-1);

     if (null == token) {
        return -1;
     }

     return token.getLine();
  }

  @Override
  public int getErrorColumn() {
     Token token = _input.LT(-1);

     if (null == token) {
```

```
            return -1;
        }

        return token.getCharPositionInLine() + 1 + token.getText().length();
    }
}

// starting point for parsing a groovy file
compilationUnit
    :   nls (packageDeclaration sep?)? scriptStatements? EOF
    ;

scriptStatements
    :   scriptStatement (sep scriptStatement)* sep?
    ;

scriptStatement
    :   importDeclaration
   // Import statement.  Can be used in any scope.  Has "import x as y" also.
    |   typeDeclaration
    // validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
    |   { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
        methodDeclaration[3, 9]
    |   statement
    ;

packageDeclaration
    :   annotationsOpt PACKAGE qualifiedName
    ;

importDeclaration
    :   annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
    ;



typeDeclaration
    :   classOrInterfaceModifiersOpt classDeclaration
    ;

modifier
    :   classOrInterfaceModifier
    |   m=(   NATIVE
          |   SYNCHRONIZED
          |   TRANSIENT
          |   VOLATILE
          |   DEF
          |   VAR
          )
```

```
  ;

modifiersOpt
  :  (modifiers nls)?
  ;

modifiers
  :  modifier (nls modifier)*
  ;

classOrInterfaceModifiersOpt
  :  (classOrInterfaceModifiers
        NL* /* Use `NL*` here for better performance,
 so DON'T replace it with `nls` */
     )?
  ;

classOrInterfaceModifiers
  :  classOrInterfaceModifier (nls classOrInterfaceModifier)*
  ;

classOrInterfaceModifier
  :  annotation       // class or interface
  |  m=(   PUBLIC     // class or interface
       |  PROTECTED  // class or interface
       |  PRIVATE    // class or interface
       |  STATIC     // class or interface
       |  ABSTRACT   // class or interface
       |  FINAL      // class only -- does not apply to interfaces
       |  STRICTFP   // class or interface
       |  DEFAULT    // interface only -- does not apply to classes
       )
  ;

variableModifier
  :  annotation
  |  m=( FINAL
       | DEF
       | VAR
       // Groovy supports declaring local variables as instance/class fields,
       // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
       // e.g. import groovy.transform.*; def a = { @Field public List awe
 = [1, 2, 3] }
       // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using
annotations(e.g. @Field)
       // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g.
benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it
as it is for the time being
```

```
        | PUBLIC
        | PROTECTED
        | PRIVATE
        | STATIC
        | ABSTRACT
        | STRICTFP
        )
  ;

variableModifiersOpt
  :  (variableModifiers nls)?
  ;

variableModifiers
  :  variableModifier (nls variableModifier)*
  ;

typeParameters
  :  LT nls typeParameter (COMMA nls typeParameter)* nls GT
  ;

typeParameter
  :  className (EXTENDS nls typeBound)?
  ;

typeBound
  :  type (BITAND nls type)*
  ;

typeList
  :  type (COMMA nls type)*
  ;


/**
*  t   0: class; 1: interface; 2: enum; 3: annotation; 4:
 trait
*/
classDeclaration
locals[ int t ]
  :  (   CLASS { $t = 0; }
     |   INTERFACE { $t = 1; }
     |   ENUM { $t = 2; }
     |   AT INTERFACE { $t = 3; }
     |   TRAIT { $t = 4; }
     )
     identifier
     (nls typeParameters)?
```

```
      (nls EXTENDS nls scs=typeList)?
      (nls IMPLEMENTS nls is=typeList)?
      nls classBody[$t]
  ;

// t    see the comment of classDeclaration
classBody[int t]
  :  LBRACE nls
     (
        /* Only enum can have enum constants */
        { 2 == $t }?
        enumConstants (nls COMMA)? sep?
     |
     )
     (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
  ;

enumConstants
  :  enumConstant (nls COMMA nls enumConstant)*
  ;

enumConstant
  :  annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
  ;

classBodyDeclaration[int t]
  :  (STATIC nls)? block
  |  memberDeclaration[$t]
  ;

memberDeclaration[int t]
  :  methodDeclaration[0,
 $t]
  |  fieldDeclaration
  |  modifiersOpt classDeclaration
  ;

/**
*  t   0: *class member* all kinds of method declaration AND constructor declaration,
*      1: normal method declaration, 2: abstract method declaration
*      3: normal method declaration OR abstract method declaration
*  ct  9: script, other see the comment of classDeclaration
*/
methodDeclaration[int t, int ct]
  :  modifiersOpt typeParameters? (returnType[$ct] nls)?
     methodName formalParameters
     (
        DEFAULT nls elementValue
```

```
    |
      (nls THROWS nls qualifiedClassNameList)?
      (nls methodBody)?
    )?
  ;

methodName
  : identifier
  | stringLiteral
  ;

returnType[int ct]
  :
    standardType
  | VOID
  ;

fieldDeclaration
  : variableDeclaration[1]
  ;

variableDeclarators
  : variableDeclarator (COMMA nls variableDeclarator)*
  ;

variableDeclarator
  : variableDeclaratorId (nls ASSIGN nls variableInitializer)?
  ;

variableDeclaratorId
  : identifier
  ;

variableInitializer
  : enhancedStatementExpression
  ;

variableInitializers
  : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
  ;

emptyDims
  : (annotationsOpt LBRACK RBRACK)+
  ;

emptyDimsOpt
  : emptyDims?
  ;
```

```
standardType
options { baseContext = type; }
  :  annotationsOpt
     (
        primitiveType
     |
        standardClassOrInterfaceType
     )
     emptyDimsOpt
  ;

type
  :  annotationsOpt
     (
        (
           primitiveType
        |
           // !!! Error Alternative !!!
            VOID
        )
     |
           generalClassOrInterfaceType
     )
     emptyDimsOpt
  ;

classOrInterfaceType
  :  (   qualifiedClassName
     |   qualifiedStandardClassName
     ) typeArguments?
  ;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

  :  qualifiedClassName typeArguments?
  ;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
  :  qualifiedStandardClassName typeArguments?
  ;

primitiveType
  :  BuiltInPrimitiveType
  ;
```

```
typeArguments
  :  LT nls typeArgument (COMMA nls typeArgument)* nls GT
  ;

typeArgument
  :  type
  |  annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
  ;

annotatedQualifiedClassName
  :  annotationsOpt qualifiedClassName
  ;

qualifiedClassNameList
  :  annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
  ;

formalParameters
  :  LPAREN formalParameterList? rparen
  ;

formalParameterList
  :  (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
  ;

thisFormalParameter
  :  type THIS
  ;

formalParameter
  :  variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
  ;

methodBody
  :  block
  ;

qualifiedName
  :  qualifiedNameElement
 (DOT qualifiedNameElement)*
  ;

/**
*  Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
*  for them in package names for better integration with existing Java packages
*/
qualifiedNameElement
  :  identifier
```

```
  |  DEF
  |  IN
  |  AS
  |  TRAIT
  ;

qualifiedNameElements
  :  (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  :  qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  :  qualifiedNameElements className (DOT className)*
  ;

literal
  :  IntegerLiteral                                    #integerLiteralAlt
  |  FloatingPointLiteral                              #floatingPointLiteralAlt
  |  stringLiteral                                     #stringLiteralAlt
  |  BooleanLiteral                                    #booleanLiteralAlt
  |  NullLiteral
                                          #nullLiteralAlt
  ;

// GSTRING

gstring
  :  GStringBegin gstringValue (GStringPart  gstringValue)* GStringEnd
  ;

gstringValue
  :  gstringPath
  |  closure
  ;

gstringPath
  :  identifier GStringPathPart*
  ;


// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
  :  lambdaParameters nls ARROW nls lambdaBody
  ;
```

```
// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
  :  standardLambdaParameters nls ARROW nls lambdaBody
  ;

lambdaParameters
options { baseContext = standardLambdaParameters; }
  :  formalParameters

  // { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
  // So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
//   |  variableDeclaratorId
  ;

standardLambdaParameters
  :  formalParameters
  |
  variableDeclaratorId
  ;

lambdaBody
  :  block
  |  statementExpression
  ;

// CLOSURE
closure
  :  LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
  ;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
  :  closure
  |  lambdaExpression
  ;

blockStatementsOpt
  :  blockStatements?
  ;

blockStatements
  :  blockStatement (sep blockStatement)* sep?
  ;

// ANNOTATIONS
```

```
annotationsOpt
  :  (annotation (nls annotation)* nls)?
  ;

annotation
  :  AT annotationName (nls LPAREN elementValues? rparen)?
  ;

elementValues
  :  elementValuePairs
  |  elementValue
  ;

annotationName : qualifiedClassName ;

elementValuePairs
  :  elementValuePair (COMMA elementValuePair)*
  ;

elementValuePair
  :  elementValuePairName nls ASSIGN nls elementValue
  ;

elementValuePairName
  :  identifier
  |  keywords
  ;

// TODO verify the potential performance issue
 because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  :  elementValueArrayInitializer
  |  annotation
  |  expression
  ;

elementValueArrayInitializer
  :  LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS

block
  :  LBRACE sep? blockStatementsOpt RBRACE
  ;

blockStatement
  :  localVariableDeclaration
```

```
  |  statement
  ;

localVariableDeclaration
  :  { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
     variableDeclaration[0]
  ;

/**
*  t   0: local variable declaration; 1: field declaration
*/
variableDeclaration[int t]
  :  modifiers nls
     (   type? variableDeclarators
     |   typeNamePairs nls ASSIGN nls variableInitializer
     )
  |
     type variableDeclarators
  ;

typeNamePairs
  :  LPAREN typeNamePair (COMMA typeNamePair)* rparen
  ;

typeNamePair
  :  type? variableDeclaratorId
  ;

variableNames
   :   LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
  ;

conditionalStatement
  :  ifElseStatement
  |  switchStatement
  ;

ifElseStatement
  :  IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
  ;

switchStatement
  :  SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
  ;

loopStatement
  :  FOR LPAREN forControl rparen nls statement                    #forStmtAlt
  |  WHILE expressionInPar nls statement                          #whileStmtAlt
```

```
  |  DO nls statement nls WHILE expressionInPar                    #doWhileStmtAlt
  ;

continueStatement
  :  CONTINUE
     identifier?
  ;

breakStatement
  :  BREAK
     identifier?
  ;

tryCatchStatement
  :  TRY resources? nls block
     (nls catchClause)*
     (nls finallyBlock)?
   ;

assertStatement
  :  ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
  ;

statement
  :  block                                          #blockStmtAlt
  |  conditionalStatement                           #conditionalStmtAlt
  |  loopStatement                                  #loopStmtAlt
  |  tryCatchStatement                              #tryCatchStmtAlt
  |  SYNCHRONIZED expressionInPar nls block          #synchronizedStmtAlt
  |  RETURN expression?                             #returnStmtAlt
  |  THROW expression                               #throwStmtAlt
  |  breakStatement                                 #breakStmtAlt
  |  continueStatement                              #continueStmtAlt
  |  identifier COLON nls statement                 #labeledStmtAlt
  |  assertStatement                                #assertStmtAlt
  |  localVariableDeclaration                       #localVariableDeclarationStmtAlt
  |  statementExpression                            #expressionStmtAlt
  |  SEMI                                           #emptyStmtAlt
  ;

catchClause
  :  CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
  ;

catchType
  :  qualifiedClassName
```

```
 (BITOR qualifiedClassName)*
  ;

finallyBlock
  :  FINALLY nls block
  ;

resources
  :  LPAREN nls resourceList sep? rparen
  ;

resourceList
  :  resource (sep resource)*
  ;

resource
  :  localVariableDeclaration
  |  expression
  ;


/** Matches cases then statements, both of which are mandatory.
*  To handle empty cases at the end, we add switchLabel* to statement.
*/
switchBlockStatementGroup
  :  switchLabel (nls switchLabel)* nls blockStatements
  ;

switchLabel
  :  CASE expression COLON
  |  DEFAULT COLON
  ;

forControl
  :  enhancedForControl
  |  classicalForControl
  ;

enhancedForControl
  :  variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
  :  forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  :  localVariableDeclaration
```

```
  |   expressionList[false]
  ;

forUpdate
  :   expressionList[false]
  ;


// EXPRESSIONS

castParExpression
  :
 LPAREN type rparen
  ;

parExpression
  :   expressionInPar
  ;

expressionInPar
  :   LPAREN enhancedStatementExpression rparen
  ;

expressionList[boolean canSpread]
  :   expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
  ;

expressionListElement[boolean canSpread]
  :   MUL? expression
  ;

enhancedStatementExpression
  :   statementExpression
  |   standardLambdaExpression
  ;

statementExpression
  :   commandExpression                #commandExprAlt
  ;

postfixExpression
  :   pathExpression op=(INC | DEC)?
  ;

expression
  // must come before postfixExpression to resovle the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
  :   castParExpression castOperandExpression                                  #castExprAlt
```

```
// qualified names, array expressions, method invocation, post inc/dec
|   postfixExpression
        #postfixExprAlt

// ~(BNOT)/!(LNOT) (level 1)
|   (BITNOT | NOT) nls expression                                    #unaryNotExprAlt

// math power operator (**) (level 2)
|   left=expression op=POWER nls right=expression                    #powerExprAlt

// ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
|   op=(INC | DEC | ADD | SUB) expression                            #unaryAddExprAlt

// multiplication/division/modulo (level 4)
|   left=expression nls op=(MUL | DIV | MOD) nls right=expression          #multiplicativeExprAlt

// binary addition/subtraction (level 5)
|   left=expression op=(ADD | SUB) nls right=expression                #additiveExprAlt

// bit shift expressions (level 6)
|   left=expression nls
    (       (   dlOp=LT LT
            |   tgOp=GT GT GT
            |   dgOp=GT GT

        )
    |   rangeOp=(    RANGE_INCLUSIVE
            |    RANGE_EXCLUSIVE
            )
    ) nls
  right=expression                                                  #shiftExprAlt

// boolean relational expressions (level 7)
|   left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type       #relationalExprAlt
|   left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN)  nls right=expression   #relationalExprAlt

// equality/inequality (==/!=) (level 8)
|   left=expression nls
    op=(    IDENTICAL
      |     NOT_IDENTICAL
      |     EQUAL
      |     NOTEQUAL
      |     SPACESHIP
      ) nls
  right=expression                                                  #equalityExprAlt

// regex find and match (=~ and ==~) (level 8.5)
```

```
  // jez: moved =~ closer to precedence of == etc, as...

  // 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
  |   left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression            #regexExprAlt

  // bitwise or non-short-circuiting and (&)  (level 9)
  |   left=expression nls op=BITAND nls right=expression                        #andExprAlt

  // exclusive or (^)  (level 10)
  |   left=expression nls op=XOR nls right=expression                          #exclusiveOrExprAlt

  // bitwise or non-short-circuiting or (|)  (level 11)
  |   left=expression nls op=BITOR nls right=expression                         #inclusiveOrExprAlt

  // logical and (&&)  (level 12)
  |   left=expression nls op=AND nls right=expression                          #logicalAndExprAlt

  // logical or (||)  (level 13)
  |   left=expression nls op=OR nls right=expression                           #logicalOrExprAlt

  // conditional test (level 14)
  |   <assoc=right>
 con=expression nls
      (   QUESTION nls tb=expression nls COLON nls
      |   ELVIS nls
      )
      fb=expression                                                 #conditionalExprAlt

  // assignment expression (level 15)
  // "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
  |   <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
#multipleAssignmentExprAlt
  |   <assoc=right> left=expression nls
                  op=(   ASSIGN
                    |   ADD_ASSIGN
                    |   SUB_ASSIGN
                    |   MUL_ASSIGN
                    |   DIV_ASSIGN
                    |   AND_ASSIGN
                    |   OR_ASSIGN
                    |   XOR_ASSIGN
                    |   RSHIFT_ASSIGN
                    |   URSHIFT_ASSIGN
                    |   LSHIFT_ASSIGN
                     |   MOD_ASSIGN
                    |   POWER_ASSIGN
                    |   ELVIS_ASSIGN
                    ) nls
```

```
            enhancedStatementExpression                         #assignmentExprAlt
  ;

castOperandExpression
options { baseContext = expression; }
  :  castParExpression castOperandExpression                    #castExprAlt

  |  postfixExpression                                          #postfixExprAlt

  // ~(BNOT)/!(LNOT)
  |  (BITNOT | NOT) nls castOperandExpression                    #unaryNotExprAlt

  // ++(prefix)/--(prefix)/+(unary)/-(unary)
  |  op=(INC | DEC | ADD | SUB) castOperandExpression           #unaryAddExprAlt
  ;

commandExpression
  :  expression
     (
        { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
        argumentList
     |
        /* if pathExpression is a method call, no need to have any more arguments */
     )

     commandArgument*
  ;

commandArgument
  :  commandPrimary
     // what follows is either a normal argument, parens,
     // an appended block, an index operation, or nothing
     // parens (a b already processed):
     //      a b c() d e -> a(b).c().d(e)
     //      a b c()() d e -> a(b).c().call().d(e)
     // index (a b already processed):
     //      a b c[x] d e -> a(b).c[x].d(e)
     //      a b c[x][y] d e -> a(b).c[x][y].d(e)
     // block (a b already processed):
     //      a b c {x} d e -> a(b).c({x}).d(e)
     //
     // parens/block completes method call
     // index makes method call to property get with index
     //
     (   pathElement+
     |   argumentList
     )?
  ;
```

```
/**
*  A "path expression" is a name or other primary, possibly qualified by various
*  forms of dot, and/or
 followed by various kinds of brackets.
*  It can be used for value or assigned to, or else further qualified, indexed, or called.
*  It is called a "path" because it looks like a linear path through a data structure.
*  Examples:  x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
*  (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
*  General expressions are built up from path expressions, using operators like '+' and '='.
*
*  t   0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
*      6: non-static inner class creator
*/
pathExpression returns [int t]
  :  (
        primary
     |
        // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
        { _input.LT(2).getType() == DOT }?
        STATIC
     ) (pathElement { $t = $pathElement.t; })*
  ;

pathElement returns [int t]
  :  nls

 (
        // AT: foo.@bar selects the field (or attribute), not property
        (
           (   DOT               // The all-powerful dot.
           |   SPREAD_DOT        // Spread operator:  x*.y  ===  x?.collect{it.y}
           |   SAFE_DOT          // Optional-null operator:  x?.y  === (x==null)?null:x.y
           |   SAFE_CHAIN_DOT     // Optional-null chain operator:  x??.y.z  === x?.y?.z
           ) nls (AT | nonWildcardTypeArguments)?
        |
           METHOD_POINTER nls     // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
        |
           METHOD_REFERENCE nls    // Method reference: System.out::println
        )
        namePart
        { $t = 1; }
     |
        DOT nls NEW creator[1]
        { $t = 6; }
```

```
        // Can always append a block, as foo{bar}
    |   closureOrLambdaExpression
        { $t = 3; }
    )

  |   arguments

   { $t = 2; }

  // Element selection is always an option, too.
  // In Groovy, the stuff between brackets is a general argument list,
  // since the bracket operator is transformed into a method call.
  |   indexPropertyArgs
      { $t = 4; }

  |   namedPropertyArgs
      { $t = 5; }
  ;

/**
*  This is the grammar for what can follow a dot:  x.a, x.@a, x.&a, x.'a', etc.
*/
namePart
  :
    (   identifier

    // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
    |   stringLiteral

    |   dynamicMemberName

    /* just a PROPOSAL, which has not been implemented yet!
    // PROPOSAL, DECIDE:  Is this inline form of the 'with' statement useful?
    // Definition:  a.{foo} === {with(a) {foo}}
    // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
    |   block
    */

    // let's allow common keywords as property names
    |
  keywords
    )
  ;

/**
*  If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
*  and the member selection is done only at runtime.  This forces a statically unchecked member access.
*/
```

```
dynamicMemberName
  :  parExpression
  |  gstring
  ;

/** An expression may be followed by [...].
*  Unlike Java, these brackets may contain a general argument list,
*  which is passed to the array element operator, which can make of it what it wants.
*  The brackets may also be empty, as in T[].  This is how Groovy names array types.
*/
indexPropertyArgs
  :  QUESTION? LBRACK expressionList[true]? RBRACK
  ;

namedPropertyArgs
  :  QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
  ;

primary
  :
     // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
HashMap<String, Integer>::new
     // Though this is not a graceful solution, it is much faster than replacing `builtInType`
 with `type`
     identifier typeArguments?                                  #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  NEW nls creator[0]                                       #newPrmrAlt
  |  THIS                                                     #thisPrmrAlt
  |  SUPER                                                    #superPrmrAlt
  |  parExpression                                            #parenPrmrAlt
  |  closureOrLambdaExpression                                #closureOrLambdaExpressionPrmrAlt
  |  list                                                     #listPrmrAlt
   |  map                                                     #mapPrmrAlt
  |  builtInType                                              #builtInTypePrmrAlt
  ;

namedPropertyArgPrimary
options { baseContext = primary; }
  :  identifier                                               #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  parExpression                                            #parenPrmrAlt
  ;

namedArgPrimary
options { baseContext = primary; }
  :  identifier                                               #identifierPrmrAlt
```

```
  |  literal                                                  #literalPrmrAlt
  |
 gstring                                                   #gstringPrmrAlt
  ;

commandPrimary
options { baseContext = primary; }
  :  identifier                                               #identifierPrmrAlt
  |  literal                                                 #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  ;

list
  :  LBRACK expressionList[true]? COMMA? RBRACK
  ;

map
  :  LBRACK
     (  mapEntryList COMMA?
     |  COLON
     )
     RBRACK
  ;

mapEntryList
  :  mapEntry (COMMA mapEntry)*
  ;

namedPropertyArgList
options { baseContext = mapEntryList; }
  :  namedPropertyArg (COMMA namedPropertyArg)*
  ;

mapEntry
  :  mapEntryLabel COLON nls expression
  |  MUL COLON nls expression
  ;

namedPropertyArg
options { baseContext = mapEntry; }
  :  namedPropertyArgLabel
 COLON nls expression
  |  MUL COLON nls expression
  ;

namedArg
options { baseContext = mapEntry; }
  :  namedArgLabel COLON nls expression
```

```
  |  MUL COLON nls expression
  ;

mapEntryLabel
  :  keywords
  |  primary
  ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedArgPrimary
  ;

/**
*  t 0: general creation; 1: non-static inner class creation
*/
creator[int t]
  :  createdName
     (  nls arguments anonymousInnerClassDeclaration[0]?
     |  dim+ (nls arrayInitializer)?
     )
  ;

dim
  :  annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  :  LBRACE nls (variableInitializers nls)? RBRACE
  ;

/**
*  t  0: anonymous inner class; 1: anonymous enum
*/
anonymousInnerClassDeclaration[int t]
  :  classBody[0]
  ;

createdName
  :  annotationsOpt
```

```
  (   primitiveType
    |   qualifiedClassName typeArgumentsOrDiamond?
    )
  ;

nonWildcardTypeArguments
  :   LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  :   LT GT
  |   typeArguments
  ;

arguments
  :   LPAREN enhancedArgumentListInPar? COMMA? rparen
  ;

argumentList
options { baseContext = enhancedArgumentListInPar; }
  :   firstArgumentListElement
    (   COMMA nls
      argumentListElement
    )*
  ;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  :   firstEnhancedArgumentListElement
    (   COMMA nls
      enhancedArgumentListElement
    )*
  ;

enhancedArgumentListInPar
  :   enhancedArgumentListElement
    (   COMMA nls
      enhancedArgumentListElement
    )*
  ;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  :   expressionListElement[true]
  |   namedArg
  ;

argumentListElement
```

```
options { baseContext = enhancedArgumentListElement;
 }
  :  expressionListElement[true]
  |  namedPropertyArg
  ;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedArg
  ;

enhancedArgumentListElement
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedPropertyArg
  ;

stringLiteral
  :  StringLiteral
  ;

className
  :  CapitalizedIdentifier
  ;

identifier
  :  Identifier
  |  CapitalizedIdentifier
  |  VAR
  |  IN
// |  DEF
  |  TRAIT
  |  AS
  ;

builtInType
  :  BuiltInPrimitiveType
  |  VOID
  ;

keywords
  :  ABSTRACT
  |  AS
  |  ASSERT
  |  BREAK
  |  CASE
```

| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
| FINAL
| FINALLY
| FOR
| GOTO
| IF
| IMPLEMENTS
| IMPORT
| IN
| INSTANCEOF
| INTERFACE
| NATIVE
| NEW
| PACKAGE
| RETURN
| STATIC
| STRICTFP
| SUPER
| SWITCH
| SYNCHRONIZED
| THIS
| THROW
| THROWS
| TRANSIENT
| TRAIT
| THREADSAFE
| TRY
| VAR
| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

| BuiltInPrimitiveType
| VOID

| PUBLIC
| PROTECTED

```
  |  PRIVATE
  ;

rparen
  :  RPAREN
  ;

nls
  :  NL*
  ;

sep :  (NL | SEMI)+
  ;
```

Found in path(s):
* /groovy-3-0-8-sources-1-jar/GroovyParser.g4
No license file was found, but licenses were detected in source scan.

```
/** JSR-241 Groovy Recognizer.
*
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*
* [The -showtree option pops up a Swing frame that shows
*  the AST constructed from the parser.]
*
* Contributing authors:
*          John Mitchell          johnm@non.net
*          Terence Parr           parrt@magelang.com
*          John Lilley            jlilley@empathy.com
*          Scott Stanchfield      thetick@magelang.com
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*          James Strachan         jstrachan@protique.com
*          John Pybus             john@pybus.org
*          John Rose              rose00@mac.com
*          Jeremy Rayner
    groovy@ross-rayner.com
*          Alex Popescu           the.mindstorm@gmail.com
*          Martin Kempf           mkempf@hsr.ch
*          Reto Kleeb             rkleeb@hsr.ch
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*          fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
*          added tree construction
```

```
*		fixed definition of WS,comments for mac,pc,unix newlines
*		added unary plus
* Version 1.11 (Nov 20, 1998)
*		Added "shutup" option to turn off last ambig warning.
*		Fixed inner class def to allow named class defs as statements
*		synchronized requires compound not simple statement
*		add [] after builtInType DOT class in primaryExpression
*		"const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
*		Changed LITERAL_xxx to xxx in tree
 grammar.
*		Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
*		Didn't have (stat)? for else clause in tree parser.
*		Didn't gen ASTs for interface extends.  Updated tree parser too.
*		Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*		Allowed final/abstract on local classes.
*		Removed local interfaces from methods
*		Put instanceof precedence where it belongs...in relationalExpr
*			It also had expr not type as arg; fixed it.
*		Missing ! on SEMI in classBlock
*		fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*		fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*		Screwed up rule with instanceof in it. :(  Fixed.
*		Tree parser didn't like (expr).something; fixed.
*		Allowed multiple inheritance
 in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*		Extending an interface built a wacky tree: had extra EXTENDS.
*		Tree grammar didn't allow multiple superinterfaces.
*		Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*		ESC lexer rule allowed 399 max not 377 max.
*		java.tree.g didn't handle the expression of synchronized
*		statements.
* Version 1.18 (August 12, 2001)
*		Terence updated to Java 2 Version 1.3 by
*		observing/combining work of Allan Jacobs and Steve
*		Messick.  Handles 1.3 src.  Summary:
*		o  primary didn't include boolean.class kind of thing
*		o  constructor calls parsed explicitly now:
*		   see explicitConstructorInvocation
*		o  add strictfp modifier
*		o  missing objBlock after new expression in tree grammar
*		o
```

```
 merged local class definition alternatives, moved after declaration
*           o  fixed problem with ClassName.super.field
*           o  reordered some alternatives to make things more efficient
*           o  long and double constants were not differentiated from int/float
*           o  whitespace rule was inefficient: matched only one char
*           o  add an examples directory with some nasty 1.3 cases
*           o  made Main.java use buffered IO and a Reader for Unicode support
*           o  supports UNICODE?
*              Using Unicode charVocabulary makes code file big, but only
*              in the bitsets at the end. I need to make ANTLR generate
*              unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*           Terence added in nice fixes by John Pybus concerning floating
*           constants and problems with super() calls.  John did a nice
*           reorg of the primary/postfix expression
 stuff to read better
*           and makes f.g.super() parse properly (it was METHOD_CALL not
*           a SUPER_CTOR_CALL).  Also:
*
*           o  "finally" clause was a root...made it a child of "try"
*           o  Added stuff for asserts too for Java 1.4, but *commented out*
*              as it is not backward compatible.
*
* Version 1.20 (October 27, 2002)
*
*       Terence ended up reorging John Pybus' stuff to
*       remove some nondeterminisms and some syntactic predicates.
*       Note that the grammar is stricter now; e.g., this(...) must
*      be the first statement.
*
*       Trinary ?: operator wasn't working as array name:
*            (isBig ? bigDigits : digits)[i];
*
*       Checked parser/tree parser on source for
*             Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*           and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
 *  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
*  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
* Version 1.21.2 (March, 2003)
*       Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*       Notes:
```

```
*       o We only allow the "extends" keyword and not the "implements"
*           keyword, since that's what JSR14 seems to imply.
*       o Thanks to Monty Zukowski for his help on the antlr-interest
*           mail list.
*       o Thanks to Alan Eliasen for testing the grammar over his
*           Fink source base
*
* Version 1.22 (July, 2004)
*       Changes by Michael Studman to support Java 1.5 language extensions
*       Notes:
*       o Added support for annotations types
*       o Finished off Matt Quail's generics
 enhancements to support bound type arguments
*       o Added support for new for statement syntax
*       o Added support for static import syntax
*       o Added support for enum types
*       o Tested against JDK 1.5 source base and source base of jdigraph project
*       o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
*       Bug/omission fixes for Java 1.5 language support
*       o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
*           spotting this
*       o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*           parameters to be recognised as type arguments.
*       o Enabled type parameters on constructors, annotations on enum constants
*           and package definitions
*       o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
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 *       Slight refactoring of Java 1.5 language support
*       o Refactored for/"foreach" productions so that original literal "for" literal
*         is still used but the for sub-clauses vary by token type
*       o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
*       Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
*       and other refactorings
*       o Fixed typeParameters omission in identPrimary and newStatement
*       o Replaced GT reconcilliation code with simple semantic predicate
*       o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*       o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
*    Small bux fixes
*    o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*    o Added typeArguments to postfixExpression
```

productions for anonymous inner class super
*   constructor invocation, e.g. new Outer().<String>super()
*   o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
*   o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*   and have applied the groovy.diff from java.g (1.22) by John Rose
*   back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
* Version 1.22.4.g.2
*   o mkempf, rkleeb, Dec 2007
*   o fixed various rules so that they call the correct Create Method
*   to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
No license file was found, but licenses were detected in source scan.

/** Java 1.5 Recognizer
*
* Run 'java Main [-showtree] directory-full-of-java-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]

```
*
* Run 'java Main <directory full of java files>'
*
* Contributing authors:
*      Jeremy Rayner       groovy@ross-rayner.com
*  John Mitchell  johnm@non.net
*  Terence Parr  parrt@magelang.com
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```
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```

```
*
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*    (isBig ? bigDigits : digits)[i];
*
*   Checked parser/tree parser on source for
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*   o Replaced GT reconciliation code with simple semantic predicate
*   o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*   o Refactored typeDefinition production and field productions to reduce duplication
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*   o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*   o Added typeArguments to postfixExpression productions for anonymous inner class super
*   constructor invocation, e.g. new Outer().<String>super()
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*   Changes by Jeremy Rayner to support java2groovy tool
*   o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*   and have made some changes to enable use by java2groovy tool (Jan 2007)
 *
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java
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* /groovy-3-0-8-sources-1-jar/groovy/io/package.html
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/xml/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/package.html
* /groovy-3-0-8-sources-1-jar/groovy/inspect/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/package.html
* /groovy-3-0-8-sources-1-jar/groovy/time/package.html
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* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/package.html
* /groovy-3-0-8-sources-1-jar/groovy/lang/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /groovy-3-0-8-sources-1-jar/groovy/grape/defaultGrapeConfig.xml
* /groovy-3-0-8-sources-1-jar/overview.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/stmt/package.html
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* /groovy-3-0-8-sources-1-jar/overviewj.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/package.html
* /groovy-3-0-8-sources-1-jar/groovy/util/package.html
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/package.html
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Found in path(s):
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 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/SourceAwareCustomizer.java
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* /groovy-3-0-8-sources-1-jar/org/apache/groovy/metaclass/Realm.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/NullCheckASTTransformation.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
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* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/powerassert/SourceText.java
* /groovy-3-0-8-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/MethodClosure.java
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/InvokerHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ObservableList.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/stc/EnumTypeCheckingExtension.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/PluginDefaultGroovyMethods.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/memoize/CommonCache.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/AsmReferenceResolver.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/MissingMethodException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/AccessPermissionChecker.java
* /groovy-3-0-8-sources-1-jar/groovy/cli/Option.java
*
 /groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/util/ReevaluatingReference.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/ConfigurationException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/VariableExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java
* /groovy-3-0-8-sources-1-jar/groovy/inspect/Inspector.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/typehandling/LongMath.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/MetaMethod.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/TailRecursiveASTTransformation.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/GroovyClassLoader.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/PropertyExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ArrayIterable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/ASTParserException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/URLStreams.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/LabelVerifier.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/ThreadInterrupt.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java

* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/InnerClassCompletionVisitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/DelegatingCustomizer.java
*
 /groovy-3-0-8-sources-1-jar/groovy/util/FileTreeBuilder.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/Delegate.java
* /groovy-3-0-8-sources-1-jar/groovy/ui/GroovyMain.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/NodeMetaDataHandler.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/StringHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/AnnotationVisitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/AutoClone.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/NumberRange.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/GroovydocManager.java
* /groovy-3-0-8-sources-1-jar/groovy/grape/GrapeIvy.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/AntlrASTProcessor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/PostfixExpression.java
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/ast/tools/ConstructorNodeUtils.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/genArrayUtil.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/GrabExclude.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/ClassGeneratorException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ClassLoaderForClassArtifacts.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/BooleanWrapper.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ArrayIterator.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Reference.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GeneratedGroovyProxy.java
* /groovy-3-0-8-sources-1-jar/groovy/util/Expando.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/GenericsUtils.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/OperandStack.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ResourceException.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/Category.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ErrorCollecting.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/RuntimeParserException.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodCallerMultiAdapter.java
*
 /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/DescriptiveErrorStrategy.java

* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/stc/ThirdParam.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/GroovyCallable.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/CacheableCallSite.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
* /groovy-3-0-8-sources-1-jar/groovy/transform/stc/SimpleType.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java
*
/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ProxyGeneratorAdapter.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/AutoExternalize.groovy
* /groovy-3-0-8-sources-1-jar/groovy/lang/Tuple13.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ASTNode.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodReferenceExpression.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/FieldASTTransformation.java
* /groovy-3-0-8-sources-1-jar/groovy/transform/TypeChecked.java
* /groovy-3-0-8-sources-1-jar/groovy/lang/MetaArrayLengthProperty.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/Variable.java
* /groovy-3-0-8-sources-1-jar/groovy/util/ObservableSet.java
*
/groovy-3-0-8-sources-1-jar/groovy/transform/MapConstructor.java
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitHelpersTuple.java
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* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java
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# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

Found in path(s):
* /groovy-3-0-8-sources-1-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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```

Found in path(s):
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
* /groovy-3-0-8-sources-1-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
*
 /groovy-3-0-8-sources-1-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
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```

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* Based on an original grammar released in the PUBLIC DOMAIN

Found in path(s):
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/groovy.g
* /groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/java/java.g
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Format: one extension on each line without the leading "*."
Listed below are default groovy source file extensions.

NOTE: This implementation
 of supporting multiple file extensions is experimental and
the exact implementation details may vary when modularization gets introduced in
groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy

Found in path(s):
* /groovy-3-0-8-sources-1-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions
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* This file is adapted from the Antlr4 Java grammar which has the following license
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```
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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
lexer grammar GroovyLexer;

options {
  superClass = AbstractLexer;
}

@header {
  import java.util.Deque;
  import java.util.ArrayDeque;
  import java.util.Map;
  import java.util.HashMap;
  import java.util.Set;
  import java.util.HashSet;
  import java.util.Collections;
  import java.util.Arrays;
  import java.util.stream.IntStream;
  import java.util.logging.Logger;
  import java.util.logging.Level;
  import java.util.EmptyStackException;
  import org.apache.groovy.util.Maps;
  import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}
```

```
@members {
  private static final
 Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
  private long tokenIndex     = 0;
  private int  lastTokenType  = 0;
  private int  invalidDigitCount = 0;

  /**
   * Record the index and token type of the current token while emitting tokens.
   */
  @Override
  public void emit(Token token) {
     this.tokenIndex++;

     int tokenType = token.getType();
     if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
     }

     if (RollBackOne == tokenType) {
        this.rollbackOneChar();
     }

     super.emit(token);
  }

  private static final int[] REGEX_CHECK_ARRAY =
                           IntStream.of(
                              Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK,
RBRACE,
                              IntegerLiteral, FloatingPointLiteral, StringLiteral, GStringEnd, INC, DEC

                 ).sorted().toArray();

  private boolean isRegexAllowed() {
     if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
        return false;
     }

     return true;
  }

  /**
   * just a hook, which will be overrided by GroovyLangLexer
   */
  protected void rollbackOneChar() {}

  private static class Paren {
```

```
    private String text;
    private int lastTokenType;
    private int line;
    private int column;

    public Paren(String text, int lastTokenType, int line, int column) {
        this.text = text;
        this.lastTokenType = lastTokenType;
        this.line = line;
        this.column = column;
    }

    public String getText() {
        return this.text;
    }

    public int getLastTokenType() {
        return this.lastTokenType;
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {

  return column;
    }

    @Override
    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

protected void enterParenCallback(String text) {}
```

```
  protected void exitParenCallback(String text) {}

  private final Deque<Paren> parenStack = new ArrayDeque<>(32);

  private void enterParen() {
     String text = getText();
     enterParenCallback(text);

     parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
  }

  private void exitParen() {
     String text = getText();
     exitParenCallback(text);

     Paren paren = parenStack.peek();
     if (null
 == paren) return;
     parenStack.pop();
  }
  private boolean isInsideParens() {
     Paren paren = parenStack.peek();

     // We just care about "(" and "[", inside which the new lines will be ignored.
     // Notice: the new lines between "{" and "}" can not be ignored.
     if (null == paren) {
        return false;
     }

     return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(....)) as parenthesis
              || "[".equals(paren.getText());
  }
  private void ignoreTokenInsideParens() {
     if (!this.isInsideParens()) {
        return;
     }

     this.setChannel(Token.HIDDEN_CHANNEL);
  }
  private void ignoreMultiLineCommentConditionally() {
     if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
     }

     this.setChannel(Token.HIDDEN_CHANNEL);
  }
```

```
  @Override
  public int getSyntaxErrorSource() {

   return GroovySyntaxError.LEXER;
  }

  @Override
  public int getErrorLine() {
     return getLine();
  }

  @Override
  public int getErrorColumn() {
     return getCharPositionInLine() + 1;
  }

  @Override
  public int popMode() {
     try {
        return super.popMode();
     } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
        if (LOGGER.isLoggable(Level.FINEST)) {
           LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
     }

     return Integer.MIN_VALUE;
  }

  private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
     return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
  }

  private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
     return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
   }
}


// 3.10.5 String Literals
StringLiteral
  :  GStringQuotationMark    DqStringCharacter* GStringQuotationMark
  |  SqStringQuotationMark   SqStringCharacter* SqStringQuotationMark

  |  Slash      { this.isRegexAllowed() && _input.LA(1) != '*' }?
           SlashyStringCharacter+       Slash

  |  TdqStringQuotationMark  TdqStringCharacter*    TdqStringQuotationMark
```

```
  | TsqStringQuotationMark  TsqStringCharacter*    TsqStringQuotationMark
  | DollarSlashyGStringQuotationMarkBegin   DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
  ;

// Groovy gstring
GStringBegin
  : GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringBegin
  : TdqStringQuotationMark   TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringBegin
  : Slash { this.isRegexAllowed()
 && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? ->
type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringBegin
  : DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;

mode DQ_GSTRING_MODE;
GStringEnd
  : GStringQuotationMark     -> popMode
  ;
GStringPart
  : Dollar  -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
GStringCharacter
  : DqStringCharacter -> more
  ;

mode TDQ_GSTRING_MODE;
TdqGStringEnd
  : TdqStringQuotationMark    -> type(GStringEnd), popMode
  ;
TdqGStringPart
  : Dollar   -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringCharacter
  : TdqStringCharacter -> more
  ;
```

```
mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
  :
  Dollar? Slash  -> type(GStringEnd), popMode
  ;
SlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?   -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringCharacter
  :  SlashyStringCharacter -> more
  ;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
  :  DollarSlashyGStringQuotationMarkEnd      -> type(GStringEnd), popMode
  ;
DollarSlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?   -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringCharacter
  :  DollarSlashyStringCharacter -> more
  ;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
  :  '{' { this.enterParen();  } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
  ;
GStringIdentifier
  :  IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
  ;


mode GSTRING_PATH_MODE;
GStringPathPart
  :  Dot IdentifierInGString
  ;
RollBackOne
  :  . {
        //
 a trick to handle GStrings followed by EOF properly
        int readChar = _input.LA(-1);
        if (EOF == _input.LA(1) && ("" == readChar || '/' == readChar)) {
           setType(GStringEnd);
        } else {
           setChannel(HIDDEN);
        }
```

```
        } -> popMode
  ;


mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
  :  ~["\r\n\\$]
  |  EscapeSequence
  ;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
  :  ~['\r\n\\]
  |  EscapeSequence
  ;

// character in the triple double quotation string. e.g. """a"""
fragment TdqStringCharacter
  :  ~["\\$]
  |  GStringQuotationMark { _input.LA(1) != '"' || _input.LA(2) != '"' || _input.LA(3) == '"' && (_input.LA(4) != '"'
|| _input.LA(5) != '"') }?
  |  EscapeSequence
  ;

// character in the triple single quotation string. e.g. '''a'''
fragment TsqStringCharacter
  :  ~['\\]
  |  SqStringQuotationMark
 { _input.LA(1) != '\'' || _input.LA(2) != '\'' || _input.LA(3) == '\'' && (_input.LA(4) != '\'' || _input.LA(5) != '\'') }?
  |  EscapeSequence
  ;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
  :  SlashEscape
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
  ;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
  :  DollarSlashEscape | DollarDollarEscape
  |  Slash { _input.LA(1) != '$' }?
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
```

```
  ;

// Groovy keywords
AS              : 'as';
DEF             : 'def';
IN              : 'in';
TRAIT           : 'trait';
THREADSAFE      : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR             : 'var';

// 3.9 Keywords
BuiltInPrimitiveType
  :   BOOLEAN
  |   CHAR
  |   BYTE
  |   SHORT
  |   INT
  |   LONG
  |   FLOAT
  |   DOUBLE
   ;

ABSTRACT      : 'abstract';
ASSERT        : 'assert';

fragment
BOOLEAN       : 'boolean';

BREAK         : 'break';

fragment
BYTE          : 'byte';

CASE          : 'case';
CATCH         : 'catch';

fragment
CHAR          : 'char';

CLASS         : 'class';
CONST         : 'const';
CONTINUE      : 'continue';
DEFAULT       : 'default';
DO            : 'do';

fragment
```

```
DOUBLE       : 'double';

ELSE         : 'else';
ENUM         : 'enum';
EXTENDS      : 'extends';
FINAL        : 'final';
FINALLY      : 'finally';

fragment
FLOAT        : 'float';


FOR          : 'for';
IF           : 'if';
GOTO         : 'goto';
IMPLEMENTS   : 'implements';
IMPORT       : 'import';
INSTANCEOF   : 'instanceof';

fragment
INT          : 'int';

INTERFACE    : 'interface';

fragment
LONG         : 'long';

NATIVE       : 'native';
NEW          : 'new';
PACKAGE      : 'package';
PRIVATE      : 'private';
PROTECTED    : 'protected';
PUBLIC       : 'public';
RETURN       :
 'return';

fragment
SHORT        : 'short';


STATIC       : 'static';
STRICTFP     : 'strictfp';
SUPER        : 'super';
SWITCH       : 'switch';
SYNCHRONIZED  : 'synchronized';
THIS         : 'this';
THROW        : 'throw';
THROWS       : 'throws';
```

```
TRANSIENT     : 'transient';
TRY           : 'try';
VOID          : 'void';
VOLATILE      : 'volatile';
WHILE         : 'while';


// 3.10.1 Integer Literals

IntegerLiteral
  :  (   DecimalIntegerLiteral
     |   HexIntegerLiteral
     |   OctalIntegerLiteral
     |   BinaryIntegerLiteral
     ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?

  // !!! Error Alternative !!!
  |   Zero ([0-9] { invalidDigitCount++; })+ { require(false, "Invalid octal number", -(invalidDigitCount + 1), true);
} IntegerTypeSuffix?
  ;

fragment
Zero
  :  '0'
  ;

fragment
DecimalIntegerLiteral
  :  DecimalNumeral IntegerTypeSuffix?
  ;

fragment
HexIntegerLiteral
  :  HexNumeral
 IntegerTypeSuffix?
  ;

fragment
OctalIntegerLiteral
  :  OctalNumeral IntegerTypeSuffix?
  ;

fragment
BinaryIntegerLiteral
  :  BinaryNumeral IntegerTypeSuffix?
  ;

fragment
```

```
IntegerTypeSuffix
  : [lLiIgG]
  ;

fragment
DecimalNumeral
  : Zero
  | NonZeroDigit (Digits? | Underscores Digits)
  ;

fragment
Digits
  : Digit (DigitOrUnderscore* Digit)?
  ;

fragment
Digit
  : Zero
  | NonZeroDigit
  ;

fragment
NonZeroDigit
  : [1-9]
  ;

fragment
DigitOrUnderscore
  : Digit
  | Underscore
  ;

fragment
Underscores
  : Underscore+
  ;

fragment
Underscore
  : '_'
  ;

fragment
HexNumeral
  : Zero [xX] HexDigits
  ;

fragment
```

```
HexDigits
  : HexDigit (HexDigitOrUnderscore* HexDigit)?
  ;

fragment
HexDigit
  : [0-9a-fA-F]
  ;

fragment
HexDigitOrUnderscore
  : HexDigit
  | Underscore
  ;

fragment
OctalNumeral
  : Zero Underscores? OctalDigits
  ;

fragment
OctalDigits
  : OctalDigit
 (OctalDigitOrUnderscore* OctalDigit)?
  ;

fragment
OctalDigit
  : [0-7]
  ;

fragment
OctalDigitOrUnderscore
  : OctalDigit
  | Underscore
  ;

fragment
BinaryNumeral
  : Zero [bB] BinaryDigits
  ;

fragment
BinaryDigits
  : BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
  ;

fragment
```

```
BinaryDigit
  :  [01]
  ;

fragment
BinaryDigitOrUnderscore
  :  BinaryDigit
  |  Underscore
  ;

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
  :  (   DecimalFloatingPointLiteral
     |   HexadecimalFloatingPointLiteral
     ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?
  ;

fragment
DecimalFloatingPointLiteral
  :  Digits Dot Digits ExponentPart? FloatTypeSuffix?
  |  Digits ExponentPart FloatTypeSuffix?
  |  Digits FloatTypeSuffix
  ;

fragment
ExponentPart
  :  ExponentIndicator SignedInteger
  ;

fragment
ExponentIndicator
  :  [eE]
  ;

fragment
SignedInteger
   :  Sign? Digits
  ;

fragment
Sign
  :  [+\-]
  ;

fragment
FloatTypeSuffix
  :  [fFdDgG]
```

```
  ;

fragment
HexadecimalFloatingPointLiteral
  :  HexSignificand BinaryExponent FloatTypeSuffix?
  ;

fragment
HexSignificand
  :  HexNumeral Dot?
  |  Zero [xX] HexDigits? Dot HexDigits
  ;

fragment
BinaryExponent
  :  BinaryExponentIndicator SignedInteger
  ;

fragment
BinaryExponentIndicator
  :  [pP]
  ;

fragment
Dot :  '.'
  ;

// 3.10.3 Boolean Literals

BooleanLiteral
  :  'true'
  |  'false'
  ;


// 3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
  :  Backslash [btnfrs'"\\]
  |  OctalEscape
  |  UnicodeEscape
  |  DollarEscape
  |  LineEscape
  ;


fragment
```

```
OctalEscape
  :   Backslash OctalDigit
  |   Backslash OctalDigit OctalDigit
  |   Backslash ZeroToThree OctalDigit OctalDigit
  ;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
  :
 Backslash 'u' HexDigit HexDigit HexDigit HexDigit
  ;

fragment
ZeroToThree
  :   [0-3]
  ;

// Groovy Escape Sequences

fragment
DollarEscape
  :   Backslash Dollar
  ;

fragment
LineEscape
  :   Backslash LineTerminator
  ;

fragment
LineTerminator
  :   '\r'? '\n' | '\r'
  ;

fragment
SlashEscape
  :   Backslash Slash
  ;

fragment
Backslash
  :   '\\'
  ;

fragment
Slash
  :   '/'
```

```
  ;

fragment
Dollar
  :  '$'
  ;

fragment
GStringQuotationMark
  :  ''''
  ;

fragment
SqStringQuotationMark
  :  '\"'
  ;

fragment
TdqStringQuotationMark
  :  '''''''
  ;

fragment
TsqStringQuotationMark
  :  '\'\'\"'
  ;

fragment
DollarSlashyGStringQuotationMarkBegin
  :  '$/'
  ;

fragment
DollarSlashyGStringQuotationMarkEnd
  :  '/$'
  ;

fragment
DollarSlashEscape
  :  '$/'
  ;

fragment
DollarDollarEscape
  :  '$$'
  ;

// 3.10.7 The Null Literal
```

```
NullLiteral
  :   'null'
  ;

// Groovy Operators

RANGE_INCLUSIVE    :
 '..';
RANGE_EXCLUSIVE    : '..<';
SPREAD_DOT         : '*.';
SAFE_DOT           : '?.';
SAFE_CHAIN_DOT     : '??.';
ELVIS              : '?:';
METHOD_POINTER     : '.&';
METHOD_REFERENCE   : '::';
REGEX_FIND         : '=~';
REGEX_MATCH        : '==~';
POWER              : '**';
POWER_ASSIGN       : '**=';
SPACESHIP          : '<=>';
IDENTICAL          : '===';
NOT_IDENTICAL      : '!==';
ARROW              : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF     : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;
NOT_IN             : '!in'         { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;


// 3.11 Separators

LPAREN         : '('  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RPAREN         : ')'  { this.exitParen();      } -> popMode;

LBRACE         : '{'  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RBRACE         : '}'  { this.exitParen();
    } -> popMode;

LBRACK         : '['  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RBRACK         : ']'  { this.exitParen();      } -> popMode;

SEMI           : ';';
COMMA          : ',';
DOT            : Dot;

// 3.12 Operators

ASSIGN         : '=';
```

```
GT            : '>';
LT            : '<';
NOT           : '!';
BITNOT        : '~';
QUESTION      : '?';
COLON         : ':';
EQUAL         : '==';
LE            : '<=';
GE            : '>=';
NOTEQUAL      : '!=';
AND           : '&&';
OR            : '||';
INC           : '++';
DEC           : '--';
ADD           : '+';
SUB           : '-';
MUL           : '*';
DIV           : Slash;
BITAND        : '&';
BITOR         : '|';
XOR           : '^';
MOD           : '%';


ADD_ASSIGN    : '+=';
SUB_ASSIGN    : '-=';
MUL_ASSIGN    : '*=';
DIV_ASSIGN    : '/=';
AND_ASSIGN    : '&=';
OR_ASSIGN     : '|=';
XOR_ASSIGN    : '^=';
MOD_ASSIGN    : '%=';
LSHIFT_ASSIGN  :
 '<<=';
RSHIFT_ASSIGN  : '>>=';
URSHIFT_ASSIGN  : '>>>=';
ELVIS_ASSIGN   : '?=';


// 3.8 Identifiers (must appear after all keywords in the grammar)
CapitalizedIdentifier
  :  JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
  ;

Identifier
  :  JavaLetter JavaLetterOrDigit*
  ;
```

```
fragment
IdentifierInGString
  :  JavaLetterInGString JavaLetterOrDigitInGString*
  ;

fragment
JavaLetter
  :  [a-zA-Z$_] // these are the "java letters" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;

fragment
JavaLetterInGString
  :  JavaLetter { _input.LA(-1) != '$' }?
  ;

fragment
JavaLetterOrDigit
   :  [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;

fragment
JavaLetterOrDigitInGString
  :  JavaLetterOrDigit  { _input.LA(-1) != '$' }?
  ;

fragment
ShCommand
  :  ~[\r\n\uFFFF]*
  ;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';
```

```
//
// Whitespace, line escape and comments
//
WS  : ([ \t]+ | LineEscape+) -> skip
  ;

// Inside (...) and [...] but not {...}, ignore newlines.
NL  : LineTerminator   { this.ignoreTokenInsideParens(); }
  ;

// Multiple-line comments (including
 groovydoc comments)
ML_COMMENT
  :   '/*' .*? '*/'       { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
  ;

// Single-line comments
SL_COMMENT
  :   '//' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); }            -> type(NL)
  ;

// Script-header comments.
// The very first characters of the file may be "#!".  If so, ignore the first line.
SH_COMMENT
  :   '#!' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand
(LineTerminator '#!' ShCommand)* -> skip
  ;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
  :   .
  ;
```

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1.232 groovy-json 3.0.8

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* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/BaseJsonParser.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonException.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMap.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CacheType.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonParser.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Value.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueContainer.java
* /groovy-json-3-0-8-sources-jar/groovy/json/StreamingJsonBuilder.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharacterSource.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharScanner.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Cache.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/NumberValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringService.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharBuf.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/IO.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Exceptions.java
* /groovy-json-3-0-8-sources-jar/groovy/json/DefaultJsonGenerator.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/SimpleCache.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringServiceFactory.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonToken.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/FastStringUtils.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringService.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonOutput.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonBuilder.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonStringDecoder.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ByteScanner.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Type.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java

* /groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurperClassic.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurper.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharSequenceValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMapImpl.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonFastParser.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueList.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyMap.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonLexer.java
*
/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ArrayUtils.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonTokenType.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonParserType.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/MapItemValue.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Sys.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Dates.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonDelegate.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
* /groovy-json-3-0-8-sources-jar/groovy/json/JsonGenerator.java
* /groovy-json-3-0-8-sources-jar/groovy/json/StringEscapeUtils.java
* /groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Chr.java
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#
org.apache.groovy.json.DefaultFastStringServiceFactory

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1.233 snake-yaml 1.21

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* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/internal/InMemoryCircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java
*
 /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/AbstractCircuitBreakerEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java

* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CallNotPermittedException.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnCallNotPermittedEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
*
 /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java
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* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/utils/package-info.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java
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* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/event/package-info.java
* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/package-info.java
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* /resilience4j-circuitbreaker-1-7-1-sources-2-jar/io/github/resilience4j/circuitbreaker/internal/CircuitBreakerStateMachine.java

1.244 resilience4j-core 1.7.1

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/lang/NonNullFields.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/lang/NonNull.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/lang/Nullable.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/MetricsPublisher.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/RegistryEventConsumer.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/CompositeRegistryEventConsumer.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/package-info.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/package-info.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventPublisher.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/EventProcessor.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StopWatch.java
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jar/io/github/resilience4j/core/exception/AcquirePermissionCancelledException.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CallableUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/SupplierUtils.java
*
 /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/StringUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CheckFunctionUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ClassUtils.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/CompletionStageUtils.java
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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/RegistryEvent.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/AbstractRegistryEvent.java
*
 /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/EntryAddedEvent.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/EntryRemovedEvent.java

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/NamingThreadFactory.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/ContextPropagator.java

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* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Snapshot.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Measurement.java
*

/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/PartialAggregation.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/AbstractAggregation.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/Metrics.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/FixedSizeSlidingWindowMetrics.java
* /resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/metrics/TotalAggregation.java
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1.245 jaeger-thrift 0.28.0

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1.246 jaeger-core 0.28.0

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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/GuaranteedThroughputSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Http.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java
*
/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/Sender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/CompositeReporter.java

* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/RateLimiter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/UdpSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/HttpSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Timer.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/ProbabilisticSamplingStrategy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/PrefixedKeys.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/LoggingReporter.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Injector.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Tracer.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RateLimitingSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/PerOperationSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/TextMapCodec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/ThriftSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Configuration.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/SpanContext.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/NotFourOctetsException.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Utils.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metric.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ProbabilisticSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Tag.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/SystemClock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Clock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ConstSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/Sampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metrics.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/HttpSamplingManager.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RemoteControlledSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/Reporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingStatus.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Counter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Gauge.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Span.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/LogData.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/NoopReporter.java

* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingManager.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/B3TextMapCodec.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/MetricsFactory.java
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 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/CompositeCodec.java

1.247 error_prone_annotations 2.3.4

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* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java
*
 /error-prone-annotations-2-3-4-sources-11-
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* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompatibleWith.java
*
/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotMock.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/FormatMethod.java
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* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/ForOverride.java
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/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

1.248 guava 28.2-jre

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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Interner.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingSortedMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Sets.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/HashMultiset.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingMapEntry.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/NaturalOrdering.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EnumBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/LinkedHashMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/LinkedHashMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractBiMap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/HashMultimap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ComparatorOrdering.java
*
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TreeMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/NullsFirstOrdering.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/BiMap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingConcurrentMap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingListIterator.java
*

/guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Lists.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EnumHashBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ConcurrentHashMultiset.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MutableClassToInstanceMap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Multiset.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Maps.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Multimaps.java
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/guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractMapEntry.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedIterables.java
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 /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractRangeSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/GeneralRange.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedIterable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Count.java
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* /guava-28-2-jre-sources-5-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeVisitor.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/CharSequenceReader.java

*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Utf8.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Verify.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/VerifyException.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredMultimapValues.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Runnables.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedMultisets.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedMultiset.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/ReaderInputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/LittleEndianByteArray.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/hash/FarmHashFingerprint64.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/CombinedFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AsyncCallable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ConsumingQueueIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Platform.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AggregateFutureState.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableEnumSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableAsList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSortedMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SingletonImmutableList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ComparisonChain.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ArrayTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SingletonImmutableTable.java

*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/ComputationException.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/DiscreteDomain.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/io/LineBuffer.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Predicates.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ExecutionList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/package-info.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/base/Functions.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/Primitives.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/CountingOutputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/Flushables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/AbstractIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/DirectExecutor.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FinalizableWeakReference.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListenableFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EnumMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FinalizablePhantomReference.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/LittleEndianDataInputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/AllowConcurrentEvents.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/eventbus/DeadEvent.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Supplier.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Preconditions.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Predicate.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/LineReader.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Defaults.java

* /guava-28-2-jre-sources-5-jar/com/google/common/collect/HashBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Interners.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/Subscribe.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/Closeables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FinalizableSoftReference.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/package-info.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteStreams.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Throwables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FinalizableReference.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/Resources.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/AsyncEventBus.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Suppliers.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FinalizableReferenceQueue.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/Files.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Function.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/MultiInputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/CharStreams.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/EventBus.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Objects.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Charsets.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/AppendableWriter.java
*

/guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeToken.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/CharEscaper.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Futures.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/TimeLimiter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/FluentFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/CharEscaperBuilder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/PatternFilenameFilter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/TimeoutFuture.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/CollectionFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ImmediateFuture.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/cache/Striped64.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAdder.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
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 /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedLists.java
* /guava-28-2-jre-sources-5-jar/com/google/common/annotations/Beta.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/base/Joiner.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/PercentEscaper.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/Doubles.java
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 /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/Longs.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/SequentialExecutor.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FluentIterable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/internal/Finalizer.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/Escaper.java
* /guava-28-2-jre-sources-5-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/UnicodeEscaper.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/FileBackedOutputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Converter.java
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 /guava-28-2-jre-sources-5-jar/com/google/common/net/InetAddresses.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/Floats.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/CharMatcher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/Shorts.java
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*/
/**
  * Returns an array containing all of the elements in the specified collection. This method
  * returns the elements in the order they are returned by the collection's iterator. The returned
  * array is "safe" in that no references to it are maintained by the collection. The caller is
  * thus free to modify the returned

array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /guava-28-2-jre-sources-5-jar/com/google/common/html/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeCapture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/hash/ChecksumHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/CharSource.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/StatsAccumulator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/CharSink.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ServiceManager.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CartesianList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableRangeMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteSink.java

*
 /guava-28-2-jre-sources-5-jar/com/google/common/xml/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/PairedStats.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAddables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/ClassPath.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredKeyMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableRangeSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteSource.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/PairedStatsAccumulator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeToInstanceMap.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/hash/SipHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAddable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/FileWriteMode.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/LinearTransformation.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/Closer.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/Invokable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/Element.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/Stats.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractByteHasher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/StandardSystemProperty.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/StandardTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMapValues.java

*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMapEntrySet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Tables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/HashBasedTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TreeBasedTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableCollection.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/UnmodifiableIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CollectPreconditions.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Table.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/PeekingIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableEntry.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSortedSet.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/Serialization.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Collections2.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMapKeySet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/StandardRowSortedTable.java
* /guava-28-2-jre-sources-5-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Platform.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableListMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Range.java
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/guava-28-2-jre-sources-5-jar/com/google/common/collect/.ImmutableListMultimap.java.swp: binary file matches

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```
*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/IncidentEdgeSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactHashing.java
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Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/Reflection.java

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Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/io/MoreFiles.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MultimapBuilder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMapEntry.java
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Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/SubscriberRegistry.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/Subscriber.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /guava-28-2-jre-sources-5-jar/com/google/common/eventbus/Dispatcher.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/base/MoreObjects.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/Quantiles.java

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*/
/*
  * This method was written by Doug Lea with assistance from members of JCP JSR-166 Expert Group
  * and released to the public domain, as explained at
  * http://creativecommons.org/licenses/publicdomain
  *
  * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
  * java.util.HashMap
 class.
  */
```

Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Striped.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Streams.java

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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingLock.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/ImmutableLongArray.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/ImmutableIntArray.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/ImmutableSupplier.java

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express
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
 wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Partially.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractSequentialIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MinMaxPriorityQueue.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingListMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedMapDifference.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingImmutableCollection.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RowSortedTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingSetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/UnmodifiableListIterator.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AtomicLongMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/GwtTransient.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/IndexedImmutableSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/JdkBackedImmutableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Funnel.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractScheduledService.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractStreamingHasher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Present.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/BoundType.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ExecutionError.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Funnels.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/DoubleUtils.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/LongMath.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/MathPreconditions.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/FunctionalEquivalence.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Enums.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/AbstractCache.java

* /guava-28-2-jre-sources-5-jar/com/google/common/cache/ForwardingLoadingCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/AbstractLoadingCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/HostAndPort.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/PrimitiveSink.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Optional.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/CacheLoader.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/package-info.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AsyncFunction.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractHasher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/ForwardingCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Queues.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/math/DoubleMath.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractSortedMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Hashing.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/HttpHeaders.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/HashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/RemovalNotification.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/UnsignedLong.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/hash/Hasher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/BloomFilterStrategies.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularContiguousSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/Weigher.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/UnsignedInteger.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/RemovalListener.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/RemovalCause.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/HashCode.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/UnsignedInts.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/Cache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/IntMath.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Crc32cHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Murmur3_32HashFunction.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/FutureCallback.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/RemovalListeners.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/HashingOutputStream.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/MediaType.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Ticker.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/math/BigIntegerMath.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EmptyContiguousSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/MessageDigestHashFunction.java

* /guava-28-2-jre-sources-5-jar/com/google/common/base/Absent.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/hash/BloomFilter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/LoadingCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/CacheStats.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TreeRangeSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/CacheBuilderSpec.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeParameter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/UnsignedLongs.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/Types.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CollectSpliterators.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/package-info.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactLinkedHashSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingImmutableSet.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredEntrySetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TransformedIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TreeRangeMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AllEqualOrdering.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingNavigableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredSetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredKeySetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RangeMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingDeque.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/DescendingImmutableSortedSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredEntryMultimap.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingImmutableList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactHashSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactLinkedHashMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableEnumMap.java

* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableAsList.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/TransformedListIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SortedMultisetBridge.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactHashMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/DescendingMultiset.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/FilteredMultimap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractNavigableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingNavigableSet.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/EvictingQueue.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ForwardingImmutableMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
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*/
/**
  * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
  * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
  * version.
  *
  * @throws UnsupportedOperationException always
  * @deprecated Pass a key of type {@code Comparable}
 to use {@link
  *   ImmutableSortedMap#of(Comparable, Object)}.
  */

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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/graph/SuccessorsFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/Graphs.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/RecursiveDeleteOption.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/InsecureRecursiveDeleteException.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/collect/TopKSelector.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableNetwork.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/Network.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/PredecessorsFunction.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableNetwork.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MapMaker.java

* /guava-28-2-jre-sources-5-jar/com/google/common/net/InternetDomainName.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/DenseImmutableTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/UrlEscapers.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteArrayDataOutput.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/annotations/GwtIncompatible.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/Callables.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/LineProcessor.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Cut.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/LocalCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/SettableFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RegularImmutableTable.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/base/Splitter.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/UnsignedBytes.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MapMakerInternalMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/primitives/SignedBytes.java
* /guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeResolver.java
* /guava-28-2-jre-sources-5-jar/com/google/common/base/Platform.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/SparseImmutableTable.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
* /guava-28-2-jre-sources-5-jar/com/google/common/xml/XmlEscapers.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/Escapers.java
* /guava-28-2-jre-sources-5-jar/com/google/common/net/HostSpecifier.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/Platform.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/CacheBuilder.java
*
 /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /guava-28-2-jre-sources-5-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteArrayDataInput.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /guava-28-2-jre-sources-5-jar/com/google/common/annotations/GwtCompatible.java
* /guava-28-2-jre-sources-5-jar/com/google/common/cache/ReferenceEntry.java
* /guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/AbstractService.java
* /guava-28-2-jre-sources-5-jar/com/google/common/io/ByteProcessor.java
* /guava-28-2-jre-sources-5-jar/com/google/common/html/HtmlEscapers.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/collect/Comparators.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/GraphConstants.java
*

/guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableNetwork.java
* /guava-28-2-jre-sources-5-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/UndirectedGraphConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractNetwork.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableValueGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableValueGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/DirectedNetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ValueGraphBuilder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ForwardingNetwork.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/MoreCollectors.java
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/guava-28-2-jre-sources-5-jar/com/google/common/collect/CollectCollectors.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractGraph.java
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* /guava-28-2-jre-sources-5-jar/com/google/common/graph/DirectedGraphConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/EndpointPair.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/EndpointPairIterator.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/NetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableMutableValueGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractValueGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
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/guava-28-2-jre-sources-5-jar/com/google/common/graph/NetworkBuilder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ForwardingGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/GraphBuilder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ElementOrder.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MultiEdgesConnecting.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/GraphConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableValueGraph.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MapRetrievalCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/MapIteratorCache.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/ValueGraph.java
*
/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /guava-28-2-jre-sources-5-jar/com/google/common/graph/EdgesConnecting.java

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1.251 stax-ex 1.8

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8
Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: http://stax-ex.java.net/
Implementation-Build-Id: ${scmBranch}-${buildNumber}, ${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.htm
l
Bundle-ManifestVersion: 2
Bundle-Name: Extended StAX API
Bundle-SymbolicName: org.jvnet.staxex.stax-ex
Bundle-Version: 1.8.0
Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activati
on,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;versio
n="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.
xml.stream,org.w3c.dom"
Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.n
amespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.
 dom
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=9.0))"
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GrpcHttp2ConnectionHandler.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GracefulCloseCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ClientTransportLifecycleManager.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/StreamIdHolder.java
*
 /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalHandlerSettings.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalNettyServerBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/HandlerSettings.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalNettyChannelBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ForcefulCloseCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/AbstractHttp2Headers.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyHandlerSettings.java

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* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyWritableBuffer.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyWritableBufferAllocator.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/package-info.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyChannelProvider.java
*
 /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CancelServerStreamCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/AbstractNettyHandler.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/JettyTlsUtil.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerProvider.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/WriteQueue.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyClientStream.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/GrpcSslContexts.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ProtocolNegotiators.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/SendPingCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/ProtocolNegotiator.java
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* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyClientHandler.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/SendResponseHeadersCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NegotiationType.java
*
 /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CreateStreamCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/CancelClientStreamCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerHandler.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/Utils.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyReadableBuffer.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerStream.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyChannelBuilder.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/SendGrpcFrameCommand.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServerTransport.java
* /grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/NettyServer.java

1.258 uuid-creator 5.2.0

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* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/UuidComparator.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base62Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/ClockSeqFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/internal/RandomUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base64Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/NcnameCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/enums/UuidVersion.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultTimeFunction.java
*
 /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base32Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/UuidTime.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultClockSeqFunction.java

* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeOrderedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/exception/InvalidUuidException.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/enums/UuidLocalDomain.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/AbstRandomBasedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/NoArgsFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/DceSecurityFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeOrderedEpochFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/BaseNCodec.java
*
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* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/MachineId.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base32Encoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/UuidFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/RandomFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/UuidValidator.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/BaseN.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/HashNodeIdFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/DotNetGuid4Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/TimeOrderedCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base64UrlCodec.java
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 /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/NodeIdFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/immutable/CharArray.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/BaseNRemainderDecoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base16Encoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/nonstandard/ShortSuffixCombFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base16Decoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/BinaryCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base16Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/AbstTimeBasedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/UuidCreator.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/nonstandard/ShortPrefixCombFactory.java
*
 /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/internal/SettingsUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultNodeIdFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/NameBasedMd5Factory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/enums/UuidVariant.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/StringCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/immutable/LongArray.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/UrnCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/DotNetGuid1Codec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/MacNodeIdFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/Base58BtcCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/DefaultRandomFunction.java
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 /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/CombUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/UriCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/BaseNEncoder.java

* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/RandomBasedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/internal/NetworkUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/enums/UuidNamespace.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/RandomNodeIdFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/UuidUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base64Decoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/util/internal/ByteUtil.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/other/SlugCodec.java
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/uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/impl/WindowsTimeFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/UuidCodec.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base64Encoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/function/TimeFunction.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/nonstandard/SuffixCombFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/AbstCombFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/Base32Decoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/rfc4122/TimeBasedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/factory/AbstNameBasedFactory.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/BaseNRemainderEncoder.java
* /uuid-creator-5-2-0-sources-jar/com/github/f4b6a3/uuid/codec/base/function/BaseNDecoder.java

1.259 resilience4j-ratelimiter 1.7.1

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jar/io/github/resilience4j/ratelimiter/internal/SemaphoreBasedRateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/internal/AtomicRateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnSuccessEvent.java
*
/resilience4j-ratelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/ratelimiter/internal/InMemoryRateLimiterRegistry.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/event/AbstractRateLimiterEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/event/RateLimiterEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnFailureEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RateLimiterConfig.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RequestNotPermitted.java
* /resilience4j-ratelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnDrainedEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-3-
jar/io/github/resilience4j/ratelimiter/internal/RateLimiterEventProcessor.java
*
/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/RateLimiterRegistry.java
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* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/utils/package-info.java
* /resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/internal/package-info.java
*
/resilience4j-ratelimiter-1-7-1-sources-3-jar/io/github/resilience4j/ratelimiter/package-info.java

1.260 jackson-core 2.12.7

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Jackson JSON processor

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1.261 jackson-annotations 2.12.7

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1.262 annotations 2.0.1

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1.263 janino 2.6.1

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Found in path(s):
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/AstCompilationUnitGenerator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/IClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/UnicodeUnescapeReader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/ProducerIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/DirectoryResourceFinder.java
*
 /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/IteratorCollection.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/samples/DeclarationCounter.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/FilterListIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Opcode.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Scanner.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ClassLoaderIClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ResourceFinderIClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/CachingJavaSourceClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/enumerator/EnumeratorFormatException.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/UnitCompiler.java

* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/LazyMultiResourceFinder.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/ReverseListIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/MapResourceFinder.java
*
 /janino-2-6-1-sources-1-jar/org/codehaus/janino/Descriptor.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/WarningHandler.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/Resource.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/FileResourceFinder.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ClassFileIClass.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/Producer.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/enumerator/Enumerator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/JavaSourceIClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/FilterIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/TransformingIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/AntCompilerAdapter.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ReflectionIClass.java
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 /janino-2-6-1-sources-1-jar/org/codehaus/janino/ScriptEvaluator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Parser.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/CodeContext.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/TraversingIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/Traverser.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/IClass.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Visitor.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/tools/Disassembler.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ClassBodyEvaluator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/tools/JGrep.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/ResourceFinderClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/DirectoryIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/MethodDescriptor.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/MultiResourceFinder.java
*
 /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/ZipFileResourceFinder.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/FileResourceCreator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/AutoIndentWriter.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/ResourceCreator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/ExpressionEvaluator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/JaninoRuntimeException.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Java.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/MapResourceCreator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/Benchmark.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/JarDirectoriesResourceFinder.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/UnparseVisitor.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/ClassFile.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/TeeReader.java
*
 /janino-2-6-1-sources-1-jar/org/codehaus/janino/SimpleCompiler.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/JavaSourceClassLoader.java

* /janino-2-6-1-sources-1-jar/org/codehaus/janino/tools/HprofScrubber.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/FileResource.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/PathResourceFinder.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/UnicodeUnescapeException.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/MultiDimensionalIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Compiler.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/FilterWarningHandler.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Mod.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/MultiIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/DirectoryResourceCreator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/resource/ResourceFinder.java
*
/janino-2-6-1-sources-1-jar/org/codehaus/janino/ByteArrayClassLoader.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/EnumerationIterator.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/iterator/UniterableElementException.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/Access.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/CompilerFactory.java
* /janino-2-6-1-sources-1-jar/org/codehaus/janino/util/StringPattern.java

1.264 amqp-client 4.12.0

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/amqp-client-4-12-0-jar/com/rabbitmq/client/impl/AMQConnection.class: binary file matches
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Manifest-Version: 1.0
Bundle-Description: The RabbitMQ Java client library allows Java appli
cations to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html, http
s://www.gnu.org/licenses/gpl-2.0.txt, https://www.mozilla.org/MPL/MPL
-1.1.txt
Bundle-SymbolicName: com.rabbitmq.client
Implementation-Version: 4.12.0
Built-By: root
Bnd-LastModified: 1586865850087
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com

Bundle-Vendor: VMware, Inc. or its affiliates.
Import-Package: com.codahale.metrics;version="[3.2,4)";resolution:=opt
ional,com.fasterxml.jackson.core;version="[2.10,3)";resolution:=optio
nal,com.fasterxml.jackson.databind;version="[2.10,3)";resolution:=opt
ional,com.fasterxml.jackson.databind.node;version="[2.10,3)";resoluti
on:=optional,io.micrometer.core.instrument;resolution:=optional,javax
.naming,javax.naming.directory,javax.net,javax.net.ssl,javax.security
.auth.callback,javax.security.sasl,org.apache.http.conn.ssl;resolutio
n:=optional,org.slf4j;version="[1.7,2)"
Tool: Bnd-1.50.0
Implementation-Vendor: VMware, Inc. or its affiliates.
Export-Package: com.rabbitmq.client.impl.nio;uses:="javax.net.ssl,com.
rabbitmq.client.impl,com.rabbitmq.client,org.slf4j";version="4.12.0",
com.rabbitmq.tools.json;uses:="org.slf4j";version="4.12.0",com.rabbit
mq.client.impl;uses:="com.rabbitmq.client,com.rabbitmq.utility,org.sl
f4j,com.rabbitmq.client.impl.recovery,io.micrometer.core.instrument,j
avax.net.ssl,javax.net,com.codahale.metrics";version="4.12.0",com.rab
bitmq.tools.jsonrpc;uses:="com.rabbitmq.tools.json,org.slf4j,com.fast
erxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jacks
on.databind.node,com.rabbitmq.client";version="4.12.0",com.rabbitmq.c
lient;uses:="com.rabbitmq.client.impl,org.slf4j,javax.net.ssl,org.apa
che.http.conn.ssl,com.rabbitmq.client.impl.nio,javax.net,com.rabbitmq
.client.impl.recovery,com.rabbitmq.utility,javax.naming.directory,jav
ax.naming,javax.security.sasl,javax.security.auth.callback";version="
4.12.0",com.rabbitmq.client.impl.recovery;uses:="org.slf4j,com.rabbit
mq.client.impl,com.rabbitmq.client,com.rabbitmq.utility";version="4.1
2.0",com.rabbitmq.utility;version="4.12.0"
Bundle-Name: RabbitMQ Java Client
Bundle-Version: 4.12.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_242
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

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1.265 spring-amqp 1.7.15.RELEASE

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*/
/**
* Special exception for listener implementations that want to signal that the current
* batch of messages should be acknowledged immediately (i.e. as soon as possible) without
* rollback, and without consuming any more messages within the current transaction.
*
* @author Dave Syer
* @author Gary Russell
 *
*/
```

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1.269 jackson-jaxrs-xml-provider 2.12.7

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1.272 resilience4j-timelimiter 1.7.1

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* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/internal/TimeLimiterEventProcessor.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnTimeoutEvent.java
*
 /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/event/AbstractTimeLimiterEvent.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/event/TimeLimiterEvent.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnErrorEvent.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/TimeLimiterRegistry.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/event/package-info.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/internal/InMemoryTimeLimiterRegistry.java
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* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/utils/MetricNames.java
* /resilience4j-timelimiter-1-7-1-sources-3-jar/io/github/resilience4j/timelimiter/utils/package-info.java

1.273 resilience4j-bulkhead 1.7.1

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* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/BulkheadFullException.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/AbstractBulkheadEvent.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/internal/InMemoryBulkheadRegistry.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/internal/SemaphoreBulkhead.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/BulkheadOnCallRejectedEvent.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/BulkheadOnCallPermittedEvent.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/BulkheadRegistry.java
* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/BulkheadEvent.java

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* /resilience4j-bulkhead-1-7-1-sources-2-jar/io/github/resilience4j/bulkhead/event/package-info.java
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1.274 resilience4j-retry 1.7.1

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 /resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/RetryOnIgnoredErrorEvent.java
* /resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/Retry.java
* /resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/RetryEvent.java
* /resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/event/RetryOnSuccessEvent.java
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* /resilience4j-retry-1-7-1-sources-3-jar/io/github/resilience4j/retry/MaxRetriesExceeded.java

1.275 squiggly-filter-jackson 1.3.18

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1.276 resilience4j-framework-common 1.7.1

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* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/bulkhead/configuration/ThreadPoolBulkheadConfigurationProperties.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/retry/configuration/RetryConfigurationProperties.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/ratelimiter/configuration/RateLimiterConfigurationProperties.java
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Found in path(s):
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/CircuitBreakerHystrixStreamEventsDTO.java
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* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/CompositeCustomizer.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/CommonProperties.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/CustomizerWithName.java
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* /resilience4j-framework-common-1-7-1-sources-1-

jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/UpdateState.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/CircuitBreakerUpdateStateResponse.java
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jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEventsEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEventDTO.java
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jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/BulkheadEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/BulkheadEventsEndpointResponse.java
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jar/io/github/resilience4j/common/circuitbreaker/configuration/CircuitBreakerConfigurationProperties.java
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* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventDTOBuilder.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventDTO.java
* /resilience4j-framework-common-1-7-1-sources-1-

jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventDTOFactory.java
*
/resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventsEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/utils/ConfigUtils.java
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jar/io/github/resilience4j/common/timelimiter/configuration/TimeLimiterConfigCustomizer.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/timelimiter/configuration/TimeLimiterConfigurationProperties.java
*
/resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEventDTO.java
* /resilience4j-framework-common-1-7-1-sources-1-
jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEventsEndpointResponse.java
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* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/BulkheadEventDTOFactory.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/CircuitBreakerEventDTOFactory.java
*
 /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/CircuitBreakerEventDTOBuilder.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/BulkheadEventDTO.java
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* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/retry/monitoring/endpoint/package-info.java
* /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/bulkhead/monitoring/endpoint/package-info.java
*
 /resilience4j-framework-common-1-7-1-sources-1-jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/package-info.java

1.277 jackson-dataformat-yaml 2.12.7

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1.278 woodstox-core 6.2.4

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com.fasterxml.jackson.dataformat.smile.SmileFactory

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1.284 jackson-module-jsonschema 2.12.7

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1.285 jedis 5.1.2

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Manifest-Version: 1.0
Bundle-Description: Jedis is a blazingly small and sane Redis java cli
ent.
Automatic-Module-Name: redis.clients.jedis

Bundle-License: https://github.com/redis/jedis/blob/master/LICENSE
Bundle-SymbolicName: redis.clients.jedis
Bnd-LastModified: 1709723810918
Bundle-ManifestVersion: 2
Import-Package: com.google.gson;version="[2.10,3)",io.github.resilienc
e4j.circuitbreaker;resolution:=optional,io.github.resilience4j.circui
tbreaker.event;resolution:=optional,io.github.resilience4j.core;resol
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.aggr,redis.clients.jedis.search.schemafields,redis.clients.jedis.tim
eseries,redis.clients.jedis.util
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Export-Package: redis.clients.jedis;uses:="io.github.resilience4j.circ
uitbreaker,javax.net.ssl,org.apache.commons.pool2,org.apache.commons.
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Bundle-Name: Jedis
Bundle-Version: 5.1.2
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9

Found in path(s):
* /jedis-5-1-2-jar/META-INF/MANIFEST.MF

1.286 javax-annotation-api 1.3.2

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/Immutable.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/GuardedBy.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
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1.288 spring-framework 4.3.19.RELEASE

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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/VfsPatternUtils.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/filter/TypeFilter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/ValueStyler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/filter/RegexPatternTypeFilter.java
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jar/org/springframework/core/convert/support/ConfigurableConversionService.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/PropertySources.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/Order.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/EnvironmentCapable.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/CollectionFactory.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ControlFlow.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ControlFlowFactory.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/FileSystemUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/MethodClassKey.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/ListenableFuture.java
*

/spring-core-4-3-19-release-sources-8-jar/org/springframework/util/FastByteArrayOutputStream.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/PropertyPlaceholderHelper.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/CompoundComparator.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/util/Assert.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/ReadOnlySystemAttributesMap.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/MethodInvoker.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/WeakReferenceMonitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/FutureAdapter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/SettableListenableFuture.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ObjectUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ErrorCoded.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ConcurrencyThrottleSupport.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/PathResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/PropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/TypeUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/NestedCheckedException.java
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jar/org/springframework/core/convert/support/StringToCharacterConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/ClassMetadata.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/PropertiesLoaderSupport.java
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jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/ClassMetadataReadingVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/FileCopyUtils.java

* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ResolvableTypeProvider.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/Conventions.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/NestedRuntimeException.java
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 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/Constants.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ResourceUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/NestedExceptionUtils.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/AbstractResource.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/UrlResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/Resource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/GenericCollectionTypeResolver.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/CompositePropertySource.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/LocalVariableTableParameterNameDiscoverer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/AntPathMatcher.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/AbstractRecursiveAnnotationVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/ByteBufferConverter.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/Base64Utils.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/DefaultConversionService.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/StreamUtils.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/AbstractPropertyResolver.java
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jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ProtocolResolver.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/ConversionFailedException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/AutoPopulatingList.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/Environment.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/AnnotationAttributeExtractor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
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 /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/LinkedMultiValueMap.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/annotation/MapAnnotationAttributeExtractor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/MethodIntrospector.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/SpringProperties.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/ListenableFutureCallback.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/DecoratingClassLoader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/backoff/FixedBackOff.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/OrderComparator.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/SocketUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/AbstractXMLReader.java

* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/EncodedResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/FailureCallback.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/converter/ConverterRegistry.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/StopWatch.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/SuccessCallback.java
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/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/DefaultResourceLoader.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/NumberUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/backoff/ExponentialBackOff.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/ConversionService.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/FileSystemResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/DigestUtils.java
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/spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/StringValueResolver.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/PropertyResolver.java
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/spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/lang/UsesSunMisc.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ConfigurableObjectInputStream.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/CommandLinePropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/ConfigurableEnvironment.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/InstanceFilter.java
*

/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/EnumToStringConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/OverridingClassLoader.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/NamedInheritableThreadLocal.java
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jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
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jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/backoff/BackOff.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/cglib/SpringCglibInfo.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/StringToCollectionConverter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/RecursiveAnnotationArrayVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/CompositeIterator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/NestedIOException.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/CollectionToCollectionConverter.java
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/spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/Log4jConfigurer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/lang/UsesJava8.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/lang/UsesJava7.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
*
/spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/PropertiesToStringConverter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/filter/AssignableTypeFilter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/CustomizableThreadCreator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxStreamHandler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/lang/UsesSunHttpServer.java

* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/converter/ConditionalConverter.java
*
 /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ExceptionTypeFilter.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/PropertiesPropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/SerializationUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/DefaultDeserializer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/UpdateMessageDigestInputStream.java
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 /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/IdGenerator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/ResourcePropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StreamConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/StringToCharsetConverter.java
*

/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/JdkVersion.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/converter/GenericConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/PatternMatchUtils.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/DefaultSerializer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/support/SerializingConverter.java
*
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/objenesis/SpringObjenesis.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/JdkIdGenerator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/AnnotationMetadata.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/AliasRegistry.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/AliasFor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/AlternativeJdkIdGenerator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/MethodMetadata.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/VfsResource.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/support/SerializationDelegate.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StringToUUIDConverter.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/InstanceComparator.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/SystemPropertyUtils.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/DomUtils.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ClassWriter.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Context.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ClassVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/AnnotationWriter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Opcodes.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/FieldWriter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ModuleWriter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Handler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Item.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Edge.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ByteVector.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Label.java
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 /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/MethodVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Frame.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Handle.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Type.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/Attribute.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ModuleVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/asm/ClassReader.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ReflectionUtils.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/env/SimpleCommandLinePropertySource.java
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/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/Property.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/MimeType.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/BridgeMethodResolver.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/MethodParameter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ClassUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/DomContentHandler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/AnnotatedElementUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
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/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/annotation/AnnotationUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/env/AbstractEnvironment.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxEventXMLReader.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/StringUtils.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/type/classreading/AnnotationAttributesReadingVisitor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/TransformerUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/XMLEventStreamReader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/support/SpringFactoriesLoader.java
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/spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ResolvableType.java
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/InvertibleComparator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/DescriptiveResource.java
*
 /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/SpringVersion.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/BooleanComparator.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ConstantException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/MultiValueMap.java
* /spring-core-4-3-19-release-sources-8-
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* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/serializer/support/SerializationFailedException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/DefaultToStringStyler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/Deserializer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/ToStringStyler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/ErrorHandler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/SyncTaskExecutor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/support/ConcurrentExecutorAdapter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/ComparableComparator.java

*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/serializer/Serializer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/CommonsLogWriter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/TaskExecutor.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/StringToPropertiesConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/convert/support/StringToArrayConverter.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/io/WritableResource.java
*
/spring-core-4-3-19-release-sources-8-jar/org/springframework/util/PathMatcher.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/style/StylerUtils.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/task/TaskRejectedException.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /spring-core-4-3-19-release-sources-8-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-4-3-19-release-sources-8-
jar/org/springframework/core/convert/support/CharacterToNumberFactory.java

1.289 mime-pull 1.9.13

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/common-annotations-api

##
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1.291 dom4j 1.6.1

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History:
Date   Who   What
28oct1999 dl   Created
14dec1999 dl   jmm snapshot
19apr2000 dl   use barrierLock
12jan2001 dl   public release
17nov2001 dl   Minor tunings
20may2002 dl   BarrierLock can now be serialized.
 09dec2002 dl   Fix interference checks.
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/Branch.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/DefaultCDATA.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/Comment.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/FlyweightComment.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/dtd/ExternalEntityDecl.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/AbstractBranch.java

* /dom4j-1-6-1-sources-7-jar/org/dom4j/DocumentType.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/QNameCache.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/Visitor.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/SAXEventRecorder.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/ProcessingInstruction.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/swing/XMLTableColumnDefinition.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/rule/Pattern.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/XMLResult.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/FilterIterator.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/datatype/DatatypeDocumentFactory.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/util/UserDataAttribute.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/dom/DOMCDATA.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/rule/RuleSet.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/DefaultNamespace.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/rule/RuleManager.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/SingleIterator.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/AbstractNode.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/PruningElementStack.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/dom/DOMEntityReference.java
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 /dom4j-1-6-1-sources-7-jar/org/dom4j/dtd/AttributeDecl.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/ElementHandler.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/CDATA.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/Text.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/PruningDispatchHandler.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/xpath/DefaultXPath.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/dom/DOMComment.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/XPath.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/DOMReader.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/DefaultText.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/AbstractComment.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/AbstractDocumentType.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/jaxb/JAXBRuntimeException.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/DocumentException.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/NodeFilter.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/DOMWriter.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/bean/BeanAttributeList.java
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 /dom4j-1-6-1-sources-7-jar/org/dom4j/io/SAXValidator.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/DocumentSource.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/CharacterData.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/jaxb/JAXBObjectModifier.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/util/NonLazyDocumentFactory.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/ElementStack.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/SAXModifyReader.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/DefaultDocument.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/dom/DOMNodeHelper.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/io/STAXEventReader.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/AbstractDocument.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/FlyweightEntity.java
* /dom4j-1-6-1-sources-7-jar/org/dom4j/tree/DefaultEntity.java
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* /dom4j-1-6-1-sources-7-jar/org/dom4j/dom/DOMDocumentFactory.java
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1.292 javassist 3.27.0-GA

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Found in path(s):

* /javassist-3-27-0-ga-sources-5-jar/javassist/CodeConverter.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/Opcode.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/tools/framedump.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/stackmap/Tracer.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/analysis/Subroutine.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/CtBehavior.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/CtNewClass.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/LongVector.java

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* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java
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* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/Descriptor.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/CtField.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/DuplicateMemberException.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/CodeAttribute.java
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Found in path(s):
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/BooleanMemberValue.java
*
/javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java

* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
*
/javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-27-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.293 jakarta xml bind api 2.3.2

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* generic signature update          Adrian Colyer
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*
* Contributors:
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*    Alex Vasseur    new factory methods for variants of JP
*  Abraham Nevado    new factory methods for collapsed SJPs
*    Andy Clement    new factory methods that rely on LDC <class>
* ********************************************************************/
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1.297 aspectj-weaver 1.9.8

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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelAnnotation.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/StandardAnnotation.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/IUnwovenClassFile.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/ConstructorSignature.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/SourceLocationImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/Signature.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/CodeSignature.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/util/FuzzyBoolean.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/NoAspectBoundException.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/util/FileUtil.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/CatchClauseSignatureImpl.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/ICommand.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/FieldSignatureImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/SignatureImpl.java
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 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/IMessage.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/IMessageHolder.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/util/PartialOrder.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/SourceLocation.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/CountingMessageHandler.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/PerObjectMap.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/SourceLocation.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/DefaultTrace.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/AbstractTrace.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/CommonsTrace.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/IMessageContext.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Trace.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Jdk14TraceFactory.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Traceable.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/DefaultTraceFactory.java
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*   Lyor Goldstein (vmware) add support for weaved class being re-defined
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* Contributors: IBM Corporation - initial API and implementation
*   Helen Hawkins   - initial version
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/model/AsmRelationshipUtils.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/internal/CharOperation.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/internal/JDTLikeHandleProvider.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/internal/NameConvertor.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/internal/HandleProviderDelimiter.java
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* Contributors:
*   PARC   initial implementation
*   AndyClement extracted as self contained type from Lint type (4-Aug-06)

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* Contributors:
*   Xerox/PARC   initial implementation
*   Alex Vasseur   new factory methods for variants of JP
* Abraham Nevado   new factory methods for collapsed SJPs
*   Andy Clement   new factory methods that rely on LDC <class>
* **/

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* variant of Aspects in the aspectj5rt project - this one isn't Java5   - Andy Clement
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerFromSuper.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/CrosscuttingMembers.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndPointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/AdviceKind.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/Position.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/DeclarePrecedence.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/MemberImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ITokenSource.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ast/FieldGet.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/NameMangler.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/Declare.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/SignaturePattern.java
*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/AjcMemberMaker.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Instanceof.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WildTypePattern.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/LazyMethodGen.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/IClassWeaver.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelCflowStackFieldAdder.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExposedState.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/ShadowRange.java

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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Var.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/IScope.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ReferencePointcut.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/Shadow.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/PrivilegedAccessMunger.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/SimpleScope.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/HandlerPointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ParserException.java
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* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ModuleWriter.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/Handle.java
*
 /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/signature/SignatureReader.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/Context.java
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* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/Handler.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/signature/SignatureWriter.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/Type.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/RecordComponentVisitor.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/SymbolTable.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodTooLargeException.java
*
 /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassTooLargeException.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassWriter.java
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* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/AnnotationWriter.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ConstantDynamic.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodWriter.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassVisitor.java

* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/Frame.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodVisitor.java
* /aspectjweaver-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassReader.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/IRelationship.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/IRelationshipMap.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/IProgramElement.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/IElementHandleProvider.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/asm/IHierarchyListener.java

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*     Alexandre Vasseur    rearchitected for #75442 finer grained matching
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*    Just a slight variation of current DocumentParser.java from Alexandre Vasseur.
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ResolvedTypeMunger.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelTypeMunger.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl11.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactory.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/EnclosingMethod.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadCounter.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStack.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/runtime/internal/CFlowCounter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/AnnotationDefault.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/StandardPointcutExpression.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/TypePatternMatcher.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationPointcut.java

*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotatedElement.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutExpression.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithinCodeAnnotationPointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ArgsAnnotationPointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithinAnnotationPointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/PointcutExpressionImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExactAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotAnnotationTypePattern.java
*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/OrAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationPatternList.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/StandardPointcutExpressionImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutPrimitive.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingPattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LocalVariableTag.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LocalVariableGen.java
*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionFactory.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/ExceptionConstants.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionCP.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantDouble.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantDynamic.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantMethodType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InvokeInstruction.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionConstants.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantInteger.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/SwitchBuilder.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/LineNumberTable.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Code.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantObject.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ClassParser.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstVisitor.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/InnerClasses.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantFieldref.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Synthetic.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/BranchHandle.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantCP.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/SourceFile.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/FieldOrMethod.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantNameAndType.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantMethodref.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ExceptionTable.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantInvokeDynamic.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantUtf8.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/NestMembers.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
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 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionHandle.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/ThreadLocalAwareRepository.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Field.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/FieldOrMethod.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InvokeDynamic.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/LocalVariableTable.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionLV.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/BootstrapMethods.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/INVOKEINTERFACE.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ClassGenException.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Modifiers.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/StackMapType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantPool.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/BasicType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/CodeException.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/DefaultClassLoaderReference.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LineNumberGen.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ClassFormatException.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/IINC.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/ConstantsInitializer.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/SyntheticRepository.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/InnerClass.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/StackMapEntry.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ClassGen.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionShort.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Attribute.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantClass.java
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/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionTargeter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantValue.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/SimpleConstant.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Constant.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/Type.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ReturnaddressType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/NestHost.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/NonCachingClassLoaderRepository.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/FieldInstruction.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ReferenceType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/TargetLostException.java
*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantMethodHandle.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Node.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/RET.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantString.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionList.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/CodeExceptionGen.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ObjectType.java

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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/IWeaveRequestor.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantPackage.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisParamAnnos.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/AnnotationElementValue.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/ClassElementValue.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/EnumElementValue.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/ArrayElementValue.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/Options.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/definition/Definition.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareAnnotation.java
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/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/Aj.java
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Found in path(s):
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/DeferredResolvedPointcutDefinition.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/InternalUseOnlyPointcutParser.java
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*   Andy Clement   pushed down into bcel module
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*   Alexandre Vasseur   support for @AJ aspects
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Found in path(s):
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelShadow.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelAdvice.java
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*   Andy Clement   incremental support and switch on/off state
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/DefaultCacheKeyResolver.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/CacheStatistics.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/CacheFactory.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelConstantPoolReader.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelConstantPoolWriter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ConstantPoolReader.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ConstantPoolWriter.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerTypeWithin.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeFieldDeclarationImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/StandardShadowMatchImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeConstructorDeclaration.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/AjTypeSystem.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/context/ContextFormatter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/StandardShadow.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PerClauseKind.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PointcutExpression.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutBasedPerClauseImpl.java

* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/MatchingContext.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/TypeVariableReference.java
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/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PointcutBasedPerClause.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcITD.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PerClause.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/MissingResolvedTypeWithKnownSignature.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareWarning.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/JoinPointMatch.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/StringToType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareError.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionVar.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutExpressionImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareAnnotation.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutParameter.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/TypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeFieldDeclaration.java
*
/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/JoinPointSignatureIterator.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/UnsupportedPointcutPrimitiveException.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclarePrecedence.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/JoinPointMatchImpl.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/context/PinpointingMessageHandler.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareParents.java
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/aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/GenericSignatureInformationProvider.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/Java15GenericSignatureInformationProvider.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeDeclaration.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AbstractPatternNodeVisitor.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/PointcutParameterImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeMethodDeclarationImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/JoinPointSignature.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/SignaturePatternImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareParents.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/TypeVariablePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeMethodDeclaration.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/NoSuchAdviceException.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareSoftImpl.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/HasThisTypePatternTriedToSneakInSomeGenericOrParameterizedTypePatternMatchingStuffAnywhereVisitor.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/Pointcut.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeDeclarationImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegateFactory.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/SignaturePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/HasMemberTypePatternFinder.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/bridge/context/ContextToken.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ScopeWithTypeVariables.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/ContextBasedMatcher.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/TypePatternBasedPerClause.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutDesignatorHandler.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareAnnotation.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/lang/reflect/NoSuchPointcutException.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/AnnotationAccessFieldVar.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelWeakClassLoaderReference.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/WeakClassLoaderReference.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ArrayReferenceType.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/WildcardedUnresolvedType.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/IWeavingSupport.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExactAnnotationFieldTypePattern.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingAnnotationFieldTypePattern.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisTypeAnnos.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeInvisTypeAnnos.java
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* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/SimpleAnnotationValue.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotationValue.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/ArrayAnnotationValue.java
*
 /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/EnumAnnotationValue.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/IVerificationRequired.java
* /aspectjweaver-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotationAnnotationValue.java
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1.301 hazelcast 5.3.6

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The packages:

com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).

The class com.hazelcast.internal.util.HashUtil contains code originating
from the Koloboke project (https://github.com/OpenHFT/Koloboke).

The class classloading.ThreadLocalLeakTestUtils contains code originating
from the Tomcat
project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating
from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating
from minimal-json project (https://github.com/ralfstx/minimal-json).

The class com.hazelcast.instance.impl.MobyNames contains code originating
from The Moby Project (https://github.com/moby/moby).

The class com.hazelcast.internal.util.graph.BronKerboschCliqueFinder contains code
originating from The JGraphT Project (https://github.com/jgrapht/jgrapht).

The packages:
com.hazelcast.sql
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (https://github.com/apache/calcite)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains
code derived from the Apache Flink project.

The class com.hazelcast.internal.util.ConcurrentReferenceHashMap contains code written by Doug Lea
and updated within the WildFly project
(https://github.com/wildfly/wildfly).

The classes:
com.hazelcast.cp.internal.raft.impl.state.FollowerState
com.hazelcast.cp.internal.raft.impl.state.FollowerStateTest
com.hazelcast.cp.internal.raft.impl.SlowFollowerBackoffTest

contain code originating from the MicroRaft project (https://github.com/MicroRaft/MicroRaft)

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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*/
/**
   * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
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   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param
 mv the method visitor to which this adapter delegates calls.
   * @param access the method's access flags (see {@link Opcodes}).
   * @param name the method's name.
   * @param desc the method's descriptor (see {@link Type Type}).
   */

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   */
```

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*/
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   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner the owner's class
 name.
   * @param access the method's access flags (see {@link Opcodes}).
   * @param name the method's name.
   * @param desc the method's descriptor (see {@link Type Type}).
   * @param mv the method visitor to which this adapter delegates calls. May
   *        be <tt>null</tt>.
   */

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/**
   * Constructs a new {@link Textifier}. Subclasses must not use this
   * constructor. Instead, they must use the {@link #Textifier(int)}
   * version.
   */

Found in path(s):
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/Textifier.java
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* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/Processor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
*
/asm-4-0-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/xml/SAXClassAdapter.java
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* /asm-4-0-sources-6-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java

* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
*
 /asm-4-0-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/Remapper.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
*
 /asm-4-0-sources-6-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/TypeInsnNode.java
*
 /asm-4-0-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/Method.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/ByteVector.java
*

/asm-4-0-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/InsnList.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Item.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Opcodes.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/ClassReader.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/Printer.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Attribute.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Label.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java
*
/asm-4-0-sources-6-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Edge.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Type.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Handle.java
*
/asm-4-0-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Frame.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/Handler.java
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*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv the <code>MethodVisitor</code>
 to send the resulting inlined
   *       method code to (use <code>null</code> for none).
   * @param access the method's access flags (see {@link Opcodes}). This
   *       parameter also indicates if the method is synthetic and/or
   *       deprecated.
   * @param name the method's name.
   * @param desc the method's descriptor (see {@link Type}).
   * @param signature the method's signature. May be <tt>null</tt>.
   * @param exceptions the internal names of the method's exception classes
   *       (see {@link Type#getInternalName() getInternalName}). May be
   *       <tt>null</tt>.
```

```
   */
```

Found in path(s):
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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* /asm-4-0-sources-6-jar/org/objectweb/asm/package.html
* /asm-4-0-sources-6-jar/org/objectweb/asm/commons/package.html
* /asm-4-0-sources-6-jar/org/objectweb/asm/tree/analysis/package.html
*
 /asm-4-0-sources-6-jar/org/objectweb/asm/signature/package.html
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/package.html
* /asm-4-0-sources-6-jar/org/objectweb/asm/attrs/package.html
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* /asm-4-0-sources-6-jar/org/objectweb/asm/util/Textifiable.java
* /asm-4-0-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

1.305 xstream 1.2.2

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* /xstream-1-2-2-sources-4-jar/com/thoughtworks/xstream/core/util/Pool.java
* /xstream-1-2-2-sources-4-jar/com/thoughtworks/xstream/core/util/TypedNull.java
* /xstream-1-2-2-sources-4-jar/com/thoughtworks/xstream/core/util/DependencyInjectionFactory.java
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```
/**
* A SAX {@link org.xml.sax.XMLReader parser} that acts as an XStream
* {@link com.thoughtworks.xstream.io.HierarchicalStreamWriter} to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects. <p/> As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ({@link
#parse(java.lang.String)}
* and {@link #parse(org.xml.sax.InputSource)}) but relies on a proprietary SAX property
* {@link #SOURCE_OBJECT_LIST_PROPERTY} to define the list of objects to serialize.
* </p>
* <p/> Configuration of this SAX parser is achieved through the standard
* {@link #setProperty SAX property mecanism}. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of {@link org.xml.sax.XMLFilter filters} down to the underlying parser
* object.
```

```
 * </p>
* <p/> This mecanism shall be used to configure the
* {@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {@link #CONFIGURED_XSTREAM_PROPERTY XStream facade}.
* </p>
*
* @author Laurent Bihanic
*/
/**
   * Sets the value of a property.
   * <p/>
   * The property name is any fully-qualified URI.  It is
   * possible for an XMLReader to recognize a property name but
   * to be unable to set its value.</p>
   * <p/>
   * XMLReaders are not required to recognize setting any
   * specific property names, though a core set is provided with
   * SAX2.</p>
   * <p/>
   * Some property values may be immutable or mutable only
   * in specific contexts, such as before, during, or after
   * a parse.</p>
   * <p/>
   * This method is also the standard mechanism for setting
   * extended handlers.</p>
   * <p/>
   * <strong>Note</strong>: This implemention only supports two
   * (proprietary) properties: {@link #CONFIGURED_XSTREAM_PROPERTY}
    * and {@link #SOURCE_OBJECT_LIST_PROPERTY}.</p>
   *
   * @param name  the property name, which is a fully-qualified URI.
   * @param value the requested value for the property.
   * @throws SAXNotRecognizedException when the XMLReader does not
   *                                   recognize the property name.
   * @throws SAXNotSupportedException  when the XMLReader recognizes
   *                                   the property name but cannot set
   *                                   the requested value.
   * @see #getProperty
   */
/**
   * Parses an XML document from a system identifier (URI).
   * <p/>
   * This method is a shortcut for the common case of reading a
   * document from a system identifier.  It is the exact
   * equivalent of the following:</p>
   * <blockquote>
   * <pre>
   *    parse(new InputSource(systemId));
```

```
   *  </pre>
   * </blockquote>
   * <p/>
   * If the system identifier is a
 URL, it must be fully resolved
   * by the application before it is passed to the parser.</p>
   * <p/>
   * <strong>Note</strong>: As a custom SAX parser, this class
   * ignores the <code>systemId</code> argument of this method
   * and relies on the proprietary SAX property
   * {@link #SOURCE_OBJECT_LIST_PROPERTY}) to define the list of
   * objects to serialize.</p>
   *
   * @param systemId the system identifier (URI).
   * @throws SAXException Any SAX exception, possibly wrapping
   *                      another exception.
   * @see #parse(org.xml.sax.InputSource)
   */
```

Found in path(s):
* /xstream-1-2-2-sources-4-jar/com/thoughtworks/xstream/io/xml/SaxWriter.java

1.306 mongodb-driver-sync 4.11.1

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* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ClientSessionClock.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/TransactionBody.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/package-info.java

* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ClientSessionImpl.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ClientSession.java
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* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/SynchronousContextProvider.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MapReduceIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/vault/ClientEncryptions.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/vault/package-info.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/OperationExecutor.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/KeyManagementService.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/DistinctIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoCollectionImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/DistinctIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/FindIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoDatabase.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoMappingCursor.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoClients.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ClientSessionBinding.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoClient.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/FindIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/package-info.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java

* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/vault/ClientEncryption.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/KeyRetriever.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoCursor.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ListCollectionsIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoClientImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSBucket.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ListSearchIndexesIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/Crypt.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ChangeStreamIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/AggregateIterableImpl.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/CommandMarker.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/CryptConnection.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoClientDelegate.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoChangeStreamCursor.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/CryptBinding.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoClientFactory.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/Crypts.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/AggregateIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MappingIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ClientEncryptionImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/MongoDatabaseImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/package-info.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ListIndexesIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/ListDatabasesIterable.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MongoCollection.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
*
 /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/internal/ListSearchIndexesIterableImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /mongodb-driver-sync-4-11-1-sources-1-jar/com/mongodb/client/MapReduceIterable.java

1.307 bson-record-codec 4.11.1

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Found in path(s):
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/package-info.java
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/RecordCodecProvider.java
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/annotations/package-info.java
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/annotations/BsonProperty.java
*
 /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/RecordCodec.java
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/annotations/BsonRepresentation.java
* /bson-record-codec-4-11-1-sources-3-jar/org/bson/codecs/record/annotations/BsonId.java

1.308 mongodb-driver-core 4.11.1

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* https://github.com/marianobarrios/tls-channel
*/

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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/SniSslContextFactory.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/DirectBufferAllocator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/ServerTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/HeapBufferAllocator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/ExtendedAsynchronousByteChannel.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelCallbackException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/util/DirectBufferDeallocator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/TlsExplorer.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java

* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/spi/dns/package-info.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/search/NumberRangeSearchOperatorBase.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/densify/DateDensifyRange.java
*
 /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/densify/NumberDensifyRange.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/annotations/NotThreadSafe.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/annotations/ThreadSafe.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/lang/NonNullApi.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/ServerApiVersion.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/ServerApi.java
* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
*
 /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/WriteConcernHelper.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/ReadPreferenceHedgeOptions.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/lang/Nullable.java

* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/lang/NonNull.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/lang/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/LoggerSettings.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/TransactionOptions.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/ReadConcernHelper.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/SocketStreamHelper.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/MongoGridFSException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/DropCollectionOperation.java
*
 /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/ServerAddress.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/densify/DensifyConstructibleBson.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/geojson/codecs/MultiPolygonCodec.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/Connection.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/Facet.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/search/TextSearchOperator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/event/ConnectionClosedEvent.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/ServerMonitor.java
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 /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/SyncOperationHelper.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/event/ServerListenerMulticaster.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/ReadConcern.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/dns/JndiDnsClient.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/netty/NettyByteBuf.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/client/model/package-info.java

* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/event/ConnectionCreatedEvent.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/connection/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/PushOptions.java
*
/mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/search/ExistsSearchOperator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/session/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/changestream/UpdateDescription.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/search/LogSearchScoreExpression.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/DefaultServerMonitor.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/FindAndDeleteOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/retry/AttachmentKeys.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/result/InsertManyResult.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/binding/SingleServerBinding.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/WindowOutputField.java
*
/mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/Indexes.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/geojson/Position.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/binding/BindingContext.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/Locks.java
* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/internal/connection/DefaultClusterableServerFactory.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/mql/MqlBoolean.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/BucketGranularity.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/CollationStrength.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/geojson/MultiLineString.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/UnixSocketChannelStream.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/ListCollectionsOperation.java
*
/mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/selector/PrimaryServerSelector.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/async/function/AsyncCallbackFunction.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/selector/WritableServerSelector.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/Projections.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/MongoConfigurationException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/search/FunctionSearchScore.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/ExplainableReadOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/fill/ValueFillOutputField.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/vault/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/geojson/codecs/PolygonCodec.java
*
/mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/internal/operation/EstimatedDocumentCountOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/MapReduceAsyncBatchCursor.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/event/ConnectionPoolClearedEvent.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/connection/ServerType.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/TimeSeriesOptions.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/CheckedSupplier.java
* /mongodb-driver-core-4-11-1-sources-1-

jar/com/mongodb/client/model/search/RangeConstructibleBsonElement.java
* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/internal/selector/ReadPreferenceWithFallbackServerSelector.java
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/mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/FindAndUpdateOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/spi/dns/DnsClientProvider.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/MongoInterruptedException.java
* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/WriteConcernResult.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/CreateViewOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/DropIndexOperation.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/fill/LinearFillOutputField.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/client/model/MapReduceAction.java
* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/client/model/search/MustNotCompoundSearchOperator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/bulk/package-info.java
*
/mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/dns/DnsResolver.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/MongoNodeIsRecoveringException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/validator/NoOpFieldNameValidator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/operation/retry/package-info.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/AwsCredential.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/MongoWriteConcernException.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/internal/connection/SpeculativeAuthenticator.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/connection/netty/NettyStreamFactory.java
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* https://github.com/marianobarrios/tls-channel
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* /mongodb-driver-core-4-11-1-sources-1-
jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
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* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/annotations/Sealed.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/annotations/Beta.java
* /mongodb-driver-core-4-11-1-sources-1-jar/com/mongodb/annotations/Evolving.java

1.309 bson 4.11.1

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Found in path(s):
* /bson-4-11-1-sources-2-jar/org/bson/BsonUndefined.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonStreamBuffer.java
* /bson-4-11-1-sources-2-jar/org/bson/json/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/StringUtils.java
* /bson-4-11-1-sources-2-jar/org/bson/LazyBSONDecoder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/RawBsonDocumentCodec.java
*

/bson-4-11-1-sources-2-jar/org/bson/codecs/CodeCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/MapCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/io/BsonInput.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/Encoder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/SymbolCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonTypeCodecMap.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonArray.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/jsr310/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonBinaryCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ObjectIdCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonBinaryWriterSettings.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/diagnostics/Loggers.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PojoCodecProvider.java
*
/bson-4-11-1-sources-2-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonElement.java
* /bson-4-11-1-sources-2-jar/org/bson/AbstractBsonReader.java
* /bson-4-11-1-sources-2-jar/org/bson/io/OutputBuffer.java
* /bson-4-11-1-sources-2-jar/org/bson/RawBsonArray.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonInvalidOperationException.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/UuidHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonObjectIdCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/FloatCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonMaxKey.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONCallbackAdapter.java
* /bson-4-11-1-sources-2-jar/org/bson/types/MaxKey.java
*
/bson-4-11-1-sources-2-jar/org/bson/BsonSerializationException.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONCallback.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonArrayCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonInt64Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonBoolean.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonSymbol.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellDateTimeConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/StrictJsonWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonObjectId.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/EnumCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonJavaScript.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonScanner.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonBooleanConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java

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 /bson-4-11-1-sources-2-jar/org/bson/diagnostics/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/LazyBSONList.java
* /bson-4-11-1-sources-2-jar/org/bson/io/ByteBufferBsonInput.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PojoBuilderHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/FieldPropertyAccessor.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/MinKeyCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonNullConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONEncoder.java
* /bson-4-11-1-sources-2-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDocument.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonStringConverter.java
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 /bson-4-11-1-sources-2-jar/org/bson/io/BsonOutput.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonMode.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonValueCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/types/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonMinKeyCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonValue.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonObject.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDocumentReader.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDbPointer.java
* /bson-4-11-1-sources-2-jar/org/bson/assertions/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PojoSpecializationHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/ByteBufNIO.java
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* /bson-4-11-1-sources-2-jar/org/bson/BsonBinarySubType.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/CollectionCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/types/StringRangeSet.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/OverridableUuidRepresentationCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/IterableCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BooleanCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/types/BSONTimestamp.java
* /bson-4-11-1-sources-2-jar/org/bson/Document.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/NumberCodecHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonType.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyAccessor.java
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/bson-4-11-1-sources-2-jar/org/bson/codecs/UuidCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyModel.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonInt32Codec.java
* /bson-4-11-1-sources-2-jar/org/bson/io/BsonInputMark.java
* /bson-4-11-1-sources-2-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/Decimal128Codec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonJavaScriptConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonContextType.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/PatternCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/CodecRegistry.java
* /bson-4-11-1-sources-2-jar/org/bson/LazyBSONObject.java
* /bson-4-11-1-sources-2-jar/org/bson/types/CodeWithScope.java
* /bson-4-11-1-sources-2-jar/org/bson/conversions/package-info.java
*
/bson-4-11-1-sources-2-jar/org/bson/json/ShellMinKeyConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/AbstractMapCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/Decoder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/RepresentationConfigurable.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonBooleanCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/FieldNameValidator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/IdGenerator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/StringCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/ProvidersCodecRegistry.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/DoubleCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /bson-4-11-1-sources-2-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PojoCodec.java
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/bson-4-11-1-sources-2-jar/org/bson/BsonMinKey.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyModelBuilder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonId.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ObjectIdGenerator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyModelSerializationInlineImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/Conventions.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonParseException.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ContainerCodecHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/MapCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/Transformer.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/JsonObjectCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonToken.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/AtomicLongCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
*

/bson-4-11-1-sources-2-jar/org/bson/io/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/AtomicBooleanCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonInt64.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/DecoderContext.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDocumentWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONDecoder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonRepresentation.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ValueCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDouble.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/ChildCodecRegistry.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/CreatorExecutable.java
* /bson-4-11-1-sources-2-jar/org/bson/AbstractBsonWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/CodecRegistries.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonWriterSettings.java
*
/bson-4-11-1-sources-2-jar/org/bson/json/JsonStringBuffer.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellMaxKeyConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/LazyCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/EmptyBSONCallback.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/LongCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/types/Binary.java
* /bson-4-11-1-sources-2-jar/org/bson/types/Code.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertySerialization.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonExtraElements.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/CodeWithScopeCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/RawBsonDocument.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/CycleDetectingCodecRegistry.java
*
/bson-4-11-1-sources-2-jar/org/bson/codecs/Codec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ParameterizedMapCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/DiscriminatorLookup.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDecimal128.java
* /bson-4-11-1-sources-2-jar/org/bson/types/ObjectId.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDocumentWrapper.java
* /bson-4-11-1-sources-2-jar/org/bson/types/Symbol.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonTimestampCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonDocumentCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonSymbolConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/CharacterCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/UuidStringValidator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/CollectionCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonBinaryConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ParameterizedCollectionCodec.java
*

/bson-4-11-1-sources-2-jar/org/bson/BsonBinary.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellUndefinedConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellInt64Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonDoubleConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonUndefinedCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonDoubleCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/InstanceCreator.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/Either.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonReader.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonInt32Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/json/StrictCharacterStreamJsonWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/types/CodeWScope.java
* /bson-4-11-1-sources-2-jar/org/bson/RawBsonValueHelper.java
*
/bson-4-11-1-sources-2-jar/org/bson/json/JsonReader.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellDecimal128Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonMaxKeyCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/BsonUtil.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonValueCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/Convention.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellBinaryConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/UuidRepresentation.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonStringCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonInt64Codec.java
* /bson-4-11-1-sources-2-jar/org/bson/BasicBSONObject.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonInt32Converter.java
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*
/bson-4-11-1-sources-2-jar/org/bson/BsonInt32.java
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* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
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* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonNullCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellTimestampConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/DocumentCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonMaximumSizeExceededException.java
*

/bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonTimestamp.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/IterableCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/BSON.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/DocumentCodecProvider.java
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* /bson-4-11-1-sources-2-jar/org/bson/codecs/Parameterizable.java
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* /bson-4-11-1-sources-2-jar/org/bson/types/MinKey.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
*
/bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyMetadata.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/MapCodecV2.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ClassModel.java
* /bson-4-11-1-sources-2-jar/org/bson/types/BasicBSONList.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ByteArrayCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonDecimal128Codec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonBuffer.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/package-info.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONException.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
*
/bson-4-11-1-sources-2-jar/org/bson/json/JsonTokenType.java
* /bson-4-11-1-sources-2-jar/org/bson/internal/CodecCache.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonDecimal128Converter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/CollectibleCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/TypeData.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/EncoderContext.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ShellRegularExpressionConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/UuidCodecHelper.java
* /bson-4-11-1-sources-2-jar/org/bson/diagnostics/NoOpLogger.java
* /bson-4-11-1-sources-2-jar/org/bson/BSONObject.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BinaryCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/JsonObjectCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonJavaScriptCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/configuration/CodecProvider.java
*

/bson-4-11-1-sources-2-jar/org/bson/BsonString.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonReaderMark.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/DateCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonJavaScriptWithScope.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/MaxKeyCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/AbstractCollectionCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ClassModelBuilder.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonDateTime.java
* /bson-4-11-1-sources-2-jar/org/bson/Bits.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ByteCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/conversions/Bson.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/IntegerCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BasicBSONDecoder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/ShortCodec.java
*
/bson-4-11-1-sources-2-jar/org/bson/BasicBSONEncoder.java
* /bson-4-11-1-sources-2-jar/org/bson/NoOpFieldNameValidator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonSymbolCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonDBPointerCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonBinaryReader.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonBinaryWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonWriterSettings.java
* /bson-4-11-1-sources-2-jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /bson-4-11-1-sources-2-jar/org/bson/diagnostics/Logger.java
* /bson-4-11-1-sources-2-jar/org/bson/json/JsonWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/TypeParameterMap.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonWriter.java
* /bson-4-11-1-sources-2-jar/org/bson/LazyBSONCallback.java
* /bson-4-11-1-sources-2-jar/org/bson/BsonRegularExpression.java
*
/bson-4-11-1-sources-2-jar/org/bson/BasicBSONCallback.java
* /bson-4-11-1-sources-2-jar/org/bson/io/BasicOutputBuffer.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/AtomicIntegerCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/diagnostics/SLF4JLogger.java
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* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/IdGenerator.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/BsonCodecProvider.java
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* /bson-4-11-1-sources-2-jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /bson-4-11-1-sources-2-jar/org/bson/codecs/jsr310/InstantCodec.java
*
 /bson-4-11-1-sources-2-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java

1.310 failureaccess 1.0.1

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/opt/cola/permits/2665668644_1759873713.7185001/0/failureaccess-1-0-1-sources-15-jar/com/google/common/util/concurrent/internal/InternalFutures.java/*

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1.311 distro 1.0.1

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Metadata-Version: 1.1
Name: distro
Version: 1.0.1
Summary: Linux Distribution - a Linux OS platform information API
Home-page: https://github.com/nir0s/distro
Author: Nir Cohen
Author-email: nir36g@gmail.com
License: Apache License, Version 2.0
Description: Distro - a Linux OS platform information API
    ==

    See `Official GitHub repo <https://github.com/nir0s/distro#distro---a-linux-os-platform-information-api>`_.

Platform: All
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2.6
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* /distro-1-0-1-tar-gz/distro-1.0.1/PKG-INFO
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1.312 jersey-container-servlet-core 2.34

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/** Java 1.5 Recognizer
*
* Run 'java Main [-showtree] directory-full-of-java-files'
*
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
*
* Run 'java Main <directory full of java files>'
*
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* Allan Jacobs Allan.Jacobs@eng.sun.com
* Steve Messick messick@redhills.com

```
*  John Pybus  john@pybus.org
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*  fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
*  added tree construction
*  fixed definition of WS,comments for mac,pc,unix newlines
 *  added unary plus
* Version 1.11 (Nov 20, 1998)
*  Added "shutup" option to turn off last ambig warning.
*  Fixed inner class def to allow named class defs as statements
*  synchronized requires compound not simple statement
*  add [] after builtInType DOT class in primaryExpression
*  "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
*  Changed LITERAL_xxx to xxx in tree grammar.
*  Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
*  Didn't have (stat)? for else clause in tree parser.
*  Didn't gen ASTs for interface extends.  Updated tree parser too.
*  Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*  Allowed final/abstract on local classes.
*  Removed local interfaces from methods
*  Put instanceof precedence where it belongs...in relationalExpr
*   It also had expr not type as arg; fixed it.
*  Missing ! on SEMI in classBlock
*  fixed: (expr) + "string" was parsed incorrectly
 (+ as unary plus).
*  fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*  Screwed up rule with instanceof in it. :(  Fixed.
*  Tree parser didn't like (expr).something; fixed.
*  Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*  Extending an interface built a wacky tree: had extra EXTENDS.
*  Tree grammar didn't allow multiple superinterfaces.
*  Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*  ESC lexer rule allowed 399 max not 377 max.
*  java.tree.g didn't handle the expression of synchronized
*  statements.
* Version 1.18 (August 12, 2001)
*    Terence updated to Java 2 Version 1.3 by
*  observing/combining work of Allan Jacobs and Steve
*  Messick.  Handles 1.3 src.  Summary:
```

```
*  o  primary didn't include boolean.class kind of thing
*    o  constructor calls parsed explicitly now:
*      see explicitConstructorInvocation
*  o  add strictfp
 modifier
*    o  missing objBlock after new expression in tree grammar
*  o  merged local class definition alternatives, moved after declaration
*  o  fixed problem with ClassName.super.field
*    o  reordered some alternatives to make things more efficient
*  o  long and double constants were not differentiated from int/float
*  o  whitespace rule was inefficient: matched only one char
*  o  add an examples directory with some nasty 1.3 cases
*  o  made Main.java use buffered IO and a Reader for Unicode support
*  o  supports UNICODE?
*     Using Unicode charVocabulay makes code file big, but only
*     in the bitsets at the end. I need to make ANTLR generate
*     unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*  Terence added in nice fixes by John Pybus concerning floating
*  constants and problems with super() calls.  John did a nice
*  reorg of the primary/postfix expression stuff to read better
*  and makes f.g.super() parse properly (it was
 METHOD_CALL not
*  a SUPER_CTOR_CALL).  Also:
*
*  o  "finally" clause was a root...made it a child of "try"
*  o  Added stuff for asserts too for Java 1.4, but *commented out*
*     as it is not backward compatible.
*
* Version 1.20 (October 27, 2002)
*
*   Terence ended up reorging John Pybus' stuff to
*   remove some nondeterminisms and some syntactic predicates.
*   Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
*
*   Ternary ?: operator wasn't working as array name:
*    (isBig ? bigDigits : digits)[i];
*
*   Checked parser/tree parser on source for
*    Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*  and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
*  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
```

```
 *  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
* Version 1.21.2 (March, 2003)
*   Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*   Notes:
*   o We only allow the "extends" keyword and not the "implements"
*  keyword, since that's what JSR14 seems to imply.
*   o Thanks to Monty Zukowski for his help on the antlr-interest
*  mail list.
*   o Thanks to Alan Eliasen for testing the grammar over his
*  Fink source base
*
* Version 1.22 (July, 2004)
*   Changes by Michael Studman to support Java 1.5 language extensions
*   Notes:
*   o Added support for annotations types
*   o Finished off Matt Quail's generics enhancements to support bound type arguments
*   o Added support for new for statement syntax
*   o Added support for static import syntax
*   o Added support for enum types
*   o Tested against JDK 1.5 source base and source base of jdigraph project
*   o Thanks to Matt Quail
 for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
*   Bug/omission fixes for Java 1.5 language support
*   o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
*  spotting this
*   o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*  parameters to be recognised as type arguments.
*   o Enabled type parameters on constructors, annotations on enum constants
*  and package definitions
*   o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
*   Slight refactoring of Java 1.5 language support
*   o Refactored for/"foreach" productions so that original literal "for" literal
*     is still used but the for sub-clauses vary by token type
*   o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
*   Bug fixes as identified by Michael
 Stahl; clean up of tabs/spaces
*       and other refactorings
*   o Fixed typeParameters omission in identPrimary and newStatement
*   o Replaced GT reconciliation code with simple semantic predicate
*   o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
```

```
*   o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
*    Small bux fixes
*    o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*    o Added typeArguments to postfixExpression productions for anonymous inner class super
*      constructor invocation, e.g. new Outer().<String>super()
*    o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.j.1
*   Changes by Jeremy Rayner to support java2groovy tool
*    o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*      and have made some changes to enable use by java2groovy tool (Jan 2007)
 *
* Based on an original grammar released in the PUBLIC DOMAIN
*/
```

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```
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```

```
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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
lexer grammar GroovyLexer;

options {
  superClass = AbstractLexer;
}

@header {
  import java.util.Deque;
  import java.util.ArrayDeque;
  import java.util.Map;
  import java.util.HashMap;
  import java.util.Set;
  import java.util.HashSet;
  import java.util.Collections;
  import java.util.Arrays;
  import java.util.stream.IntStream;
  import java.util.logging.Logger;
  import java.util.logging.Level;
  import java.util.EmptyStackException;
  import org.apache.groovy.util.Maps;
  import static org.apache.groovy.parser.antlr4.SemanticPredicates.*;
}

@members {
  private static final
 Logger LOGGER = Logger.getLogger(GroovyLexer.class.getName());
  private long tokenIndex     = 0;
  private int  lastTokenType  = 0;
  private int  invalidDigitCount = 0;

  /**
   * Record the index and token type of the current token while emitting tokens.
   */
  @Override
  public void emit(Token token) {
     this.tokenIndex++;

     int tokenType = token.getType();
     if (Token.DEFAULT_CHANNEL == token.getChannel()) {
        this.lastTokenType = tokenType;
     }
```

```
        if (RollBackOne == tokenType) {
            this.rollbackOneChar();
        }

        super.emit(token);
    }

    private static final int[] REGEX_CHECK_ARRAY =
                            IntStream.of(
                                Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK,
RBRACE,
                                IntegerLiteral, FloatingPointLiteral, StringLiteral, GStringEnd, INC, DEC

                    ).sorted().toArray();

    private boolean isRegexAllowed() {
        if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
            return false;
        }

        return true;
    }

    /**
     * just a hook, which will be overrided by GroovyLangLexer
     */
    protected void rollbackOneChar() {}

    private static class Paren {
        private String text;
        private int lastTokenType;
        private int line;
        private int column;

        public Paren(String text, int lastTokenType, int line, int column) {
            this.text = text;
            this.lastTokenType = lastTokenType;
            this.line = line;
            this.column = column;
        }

        public String getText() {
            return this.text;
        }

        public int getLastTokenType() {
            return this.lastTokenType;
```

```
    }

    public int getLine() {
        return line;
    }

    public int getColumn() {

  return column;
    }

    @Override
    public int hashCode() {
        return (int) (text.hashCode() * line + column);
    }

    @Override
    public boolean equals(Object obj) {
        if (!(obj instanceof Paren)) {
            return false;
        }

        Paren other = (Paren) obj;

        return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
    }
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

private final Deque<Paren> parenStack = new ArrayDeque<>(32);

private void enterParen() {
    String text = getText();
    enterParenCallback(text);

    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

private void exitParen() {
    String text = getText();
    exitParenCallback(text);

    Paren paren = parenStack.peek();
    if (null
```

```
 == paren) return;
      parenStack.pop();
    }
    private boolean isInsideParens() {
      Paren paren = parenStack.peek();

      // We just care about "(" and "[", inside which the new lines will be ignored.
      // Notice: the new lines between "{" and "}" can not be ignored.
      if (null == paren) {
        return false;
      }

      return ("(".equals(paren.getText()) && TRY != paren.getLastTokenType()) // we don't treat try-paren(i.e. try
(....)) as parenthesis
          || "[".equals(paren.getText());
    }
    private void ignoreTokenInsideParens() {
      if (!this.isInsideParens()) {
        return;
      }

      this.setChannel(Token.HIDDEN_CHANNEL);
    }
    private void ignoreMultiLineCommentConditionally() {
      if (!this.isInsideParens() && isFollowedByWhiteSpaces(_input)) {
        return;
      }

      this.setChannel(Token.HIDDEN_CHANNEL);
    }

    @Override
    public int getSyntaxErrorSource() {

     return GroovySyntaxError.LEXER;
    }

    @Override
    public int getErrorLine() {
      return getLine();
    }

    @Override
    public int getErrorColumn() {
      return getCharPositionInLine() + 1;
    }

    @Override
```

```
  public int popMode() {
     try {
        return super.popMode();
     } catch (EmptyStackException ignored) { // raised when parens are unmatched: too many ), ], or }
        if (LOGGER.isLoggable(Level.FINEST)) {
           LOGGER.finest(org.codehaus.groovy.runtime.DefaultGroovyMethods.asString(ignored));
        }
     }

     return Integer.MIN_VALUE;
  }

  private static boolean isJavaIdentifierStartAndNotIdentifierIgnorable(int codePoint) {
     return Character.isJavaIdentifierStart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
  }

  private static boolean isJavaIdentifierPartAndNotIdentifierIgnorable(int codePoint) {
     return Character.isJavaIdentifierPart(codePoint) && !Character.isIdentifierIgnorable(codePoint);
   }
}



// 3.10.5 String Literals
StringLiteral
  :  GStringQuotationMark    DqStringCharacter* GStringQuotationMark
  |  SqStringQuotationMark   SqStringCharacter* SqStringQuotationMark

  |  Slash      { this.isRegexAllowed() && _input.LA(1) != '*' }?
             SlashyStringCharacter+       Slash

  |  TdqStringQuotationMark  TdqStringCharacter*    TdqStringQuotationMark
  |  TsqStringQuotationMark  TsqStringCharacter*    TsqStringQuotationMark
  |  DollarSlashyGStringQuotationMarkBegin   DollarSlashyStringCharacter+
DollarSlashyGStringQuotationMarkEnd
  ;

// Groovy gstring
GStringBegin
  :  GStringQuotationMark DqStringCharacter* Dollar -> pushMode(DQ_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringBegin
  :  TdqStringQuotationMark   TdqStringCharacter* Dollar -> type(GStringBegin),
pushMode(TDQ_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringBegin
  :  Slash { this.isRegexAllowed()
```

```
 && _input.LA(1) != '*' }? SlashyStringCharacter* Dollar { isFollowedByJavaLetterInGString(_input) }? ->
type(GStringBegin), pushMode(SLASHY_GSTRING_MODE),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringBegin
  :  DollarSlashyGStringQuotationMarkBegin DollarSlashyStringCharacter* Dollar {
isFollowedByJavaLetterInGString(_input) }? -> type(GStringBegin),
pushMode(DOLLAR_SLASHY_GSTRING_MODE), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;

mode DQ_GSTRING_MODE;
GStringEnd
  :  GStringQuotationMark     -> popMode
  ;
GStringPart
  :  Dollar  -> pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
GStringCharacter
  :  DqStringCharacter -> more
  ;

mode TDQ_GSTRING_MODE;
TdqGStringEnd
  :  TdqStringQuotationMark    -> type(GStringEnd), popMode
  ;
TdqGStringPart
  :  Dollar   -> type(GStringPart), pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
TdqGStringCharacter
  :  TdqStringCharacter -> more
  ;

mode SLASHY_GSTRING_MODE;
SlashyGStringEnd
  :
  Dollar? Slash  -> type(GStringEnd), popMode
  ;
SlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?   -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
SlashyGStringCharacter
  :  SlashyStringCharacter -> more
  ;

mode DOLLAR_SLASHY_GSTRING_MODE;
DollarSlashyGStringEnd
  :  DollarSlashyGStringQuotationMarkEnd      -> type(GStringEnd), popMode
```

```
  ;
DollarSlashyGStringPart
  :  Dollar { isFollowedByJavaLetterInGString(_input) }?  -> type(GStringPart),
pushMode(GSTRING_TYPE_SELECTOR_MODE)
  ;
DollarSlashyGStringCharacter
  :  DollarSlashyStringCharacter -> more
  ;

mode GSTRING_TYPE_SELECTOR_MODE;
GStringLBrace
  :  '{' { this.enterParen();  } -> type(LBRACE), popMode, pushMode(DEFAULT_MODE)
  ;
GStringIdentifier
  :  IdentifierInGString -> type(Identifier), popMode, pushMode(GSTRING_PATH_MODE)
  ;



mode GSTRING_PATH_MODE;
GStringPathPart
  :  Dot IdentifierInGString
  ;
RollBackOne
  :  . {
        //
 a trick to handle GStrings followed by EOF properly
        int readChar = _input.LA(-1);
        if (EOF == _input.LA(1) && ("" == readChar || '/' == readChar)) {
           setType(GStringEnd);
        } else {
           setChannel(HIDDEN);
        }
       } -> popMode
  ;



mode DEFAULT_MODE;
// character in the double quotation string. e.g. "a"
fragment
DqStringCharacter
  :  ~["\r\n\\$]
  |  EscapeSequence
  ;

// character in the single quotation string. e.g. 'a'
fragment
SqStringCharacter
  :  ~['\r\n\\]
```

```
  |  EscapeSequence
  ;

// character in the triple double quotation string. e.g. """a"""
fragment TdqStringCharacter
  :  ~["\\$]
  |  GStringQuotationMark { _input.LA(1) != '"' || _input.LA(2) != '"' || _input.LA(3) == '"' && (_input.LA(4) != '"'
|| _input.LA(5) != '"') }?
  |  EscapeSequence
  ;

// character in the triple single quotation string. e.g. '''a'''
fragment TsqStringCharacter
  :  ~['\\]
  |  SqStringQuotationMark
 { _input.LA(1) != '\'' || _input.LA(2) != '\'' || _input.LA(3) == '\'' && (_input.LA(4) != '\'' || _input.LA(5) != '\'') }?
  |  EscapeSequence
  ;

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
  :  SlashEscape
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
  ;

// character in the dollar slashy string. e.g. $/a/$
fragment DollarSlashyStringCharacter
  :  DollarSlashEscape | DollarDollarEscape
  |  Slash { _input.LA(1) != '$' }?
  |  Dollar { !isFollowedByJavaLetterInGString(_input) }?
  |  ~[/$\u0000]
  ;

// Groovy keywords
AS              : 'as';
DEF             : 'def';
IN              : 'in';
TRAIT           : 'trait';
THREADSAFE      : 'threadsafe'; // reserved keyword

// the reserved type name of Java10
VAR             : 'var';

// 3.9 Keywords
BuiltInPrimitiveType
  :  BOOLEAN
  |  CHAR
```

```
  | BYTE
  | SHORT
  | INT
  | LONG
  | FLOAT
  | DOUBLE
   ;

ABSTRACT     : 'abstract';
ASSERT       : 'assert';

fragment
BOOLEAN      : 'boolean';

BREAK        : 'break';

fragment
BYTE         : 'byte';

CASE         : 'case';
CATCH        : 'catch';

fragment
CHAR         : 'char';

CLASS        : 'class';
CONST        : 'const';
CONTINUE     : 'continue';
DEFAULT      : 'default';
DO           : 'do';

fragment
DOUBLE       : 'double';

ELSE         : 'else';
ENUM         : 'enum';
EXTENDS      : 'extends';
FINAL        : 'final';
FINALLY      : 'finally';

fragment
FLOAT        : 'float';


FOR          : 'for';
IF           : 'if';
GOTO         : 'goto';
IMPLEMENTS   : 'implements';
```

```
IMPORT       : 'import';
INSTANCEOF   : 'instanceof';

fragment
INT          : 'int';

INTERFACE    : 'interface';

fragment
LONG         : 'long';

NATIVE       : 'native';
NEW          : 'new';
PACKAGE      : 'package';
PRIVATE      : 'private';
PROTECTED    : 'protected';
PUBLIC       : 'public';
RETURN       :
 'return';

fragment
SHORT        : 'short';


STATIC       : 'static';
STRICTFP     : 'strictfp';
SUPER        : 'super';
SWITCH       : 'switch';
SYNCHRONIZED  : 'synchronized';
THIS         : 'this';
THROW        : 'throw';
THROWS       : 'throws';
TRANSIENT    : 'transient';
TRY          : 'try';
VOID         : 'void';
VOLATILE     : 'volatile';
WHILE        : 'while';


// 3.10.1 Integer Literals

IntegerLiteral
  :  (   DecimalIntegerLiteral
     |   HexIntegerLiteral
     |   OctalIntegerLiteral
     |   BinaryIntegerLiteral
     ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?
```

```
  // !!! Error Alternative !!!
  |   Zero ([0-9] { invalidDigitCount++; })+ { require(false, "Invalid octal number", -(invalidDigitCount + 1), true);
} IntegerTypeSuffix?
  ;

fragment
Zero
  :   '0'
  ;

fragment
DecimalIntegerLiteral
  :   DecimalNumeral IntegerTypeSuffix?
  ;

fragment
HexIntegerLiteral
  :   HexNumeral
 IntegerTypeSuffix?
  ;

fragment
OctalIntegerLiteral
  :   OctalNumeral IntegerTypeSuffix?
  ;

fragment
BinaryIntegerLiteral
  :   BinaryNumeral IntegerTypeSuffix?
  ;

fragment
IntegerTypeSuffix
  :   [lLiIgG]
  ;

fragment
DecimalNumeral
  :   Zero
  |   NonZeroDigit (Digits? | Underscores Digits)
  ;

fragment
Digits
  :   Digit (DigitOrUnderscore* Digit)?
  ;

fragment
```

```
Digit
  : Zero
  | NonZeroDigit
  ;

fragment
NonZeroDigit
  : [1-9]
  ;

fragment
DigitOrUnderscore
  : Digit
  | Underscore
  ;

fragment
Underscores
  : Underscore+
  ;

fragment
Underscore
  : '_'
  ;

fragment
HexNumeral
  : Zero [xX] HexDigits
  ;

fragment
HexDigits
  : HexDigit (HexDigitOrUnderscore* HexDigit)?
  ;

fragment
HexDigit
  : [0-9a-fA-F]
  ;

fragment
HexDigitOrUnderscore
  : HexDigit
  | Underscore
  ;

fragment
```

```
OctalNumeral
  :  Zero Underscores? OctalDigits
  ;

fragment
OctalDigits
  :  OctalDigit
 (OctalDigitOrUnderscore* OctalDigit)?
  ;

fragment
OctalDigit
  :  [0-7]
  ;

fragment
OctalDigitOrUnderscore
  :  OctalDigit
  |  Underscore
  ;

fragment
BinaryNumeral
  :  Zero [bB] BinaryDigits
  ;

fragment
BinaryDigits
  :  BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?
  ;

fragment
BinaryDigit
  :  [01]
  ;

fragment
BinaryDigitOrUnderscore
  :  BinaryDigit
  |  Underscore
  ;

// 3.10.2 Floating-Point Literals

FloatingPointLiteral
  :  (   DecimalFloatingPointLiteral
     |   HexadecimalFloatingPointLiteral
     ) (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })?
```

```
  ;

fragment
DecimalFloatingPointLiteral
  :  Digits Dot Digits ExponentPart? FloatTypeSuffix?
  |  Digits ExponentPart FloatTypeSuffix?
  |  Digits FloatTypeSuffix
  ;

fragment
ExponentPart
  :  ExponentIndicator SignedInteger
  ;

fragment
ExponentIndicator
  :  [eE]
  ;

fragment
SignedInteger
   :  Sign? Digits
  ;

fragment
Sign
  :  [+\-]
  ;

fragment
FloatTypeSuffix
  :  [fFdDgG]
  ;

fragment
HexadecimalFloatingPointLiteral
  :  HexSignificand BinaryExponent FloatTypeSuffix?
  ;

fragment
HexSignificand
  :  HexNumeral Dot?
  |  Zero [xX] HexDigits? Dot HexDigits
  ;

fragment
BinaryExponent
  :  BinaryExponentIndicator SignedInteger
```

```
  ;

fragment
BinaryExponentIndicator
  :  [pP]
  ;

fragment
Dot :  '.'
  ;

// 3.10.3 Boolean Literals

BooleanLiteral
  :  'true'
  |  'false'
  ;


// 3.10.6 Escape Sequences for Character and String Literals

fragment
EscapeSequence
  :  Backslash [btnfrs'"\\]
  |  OctalEscape
  |  UnicodeEscape
  |  DollarEscape
  |  LineEscape
  ;


fragment
OctalEscape
  :  Backslash OctalDigit
  |  Backslash OctalDigit OctalDigit
  |  Backslash ZeroToThree OctalDigit OctalDigit
  ;

// Groovy allows 1 or more u's after the backslash
fragment
UnicodeEscape
  :
 Backslash 'u' HexDigit HexDigit HexDigit HexDigit
  ;

fragment
ZeroToThree
  :  [0-3]
```

```
  ;

// Groovy Escape Sequences

fragment
DollarEscape
  :  Backslash Dollar
  ;

fragment
LineEscape
  :  Backslash LineTerminator
  ;

fragment
LineTerminator
  :  '\r'? '\n' | '\r'
  ;

fragment
SlashEscape
  :  Backslash Slash
  ;

fragment
Backslash
  :  '\\'
  ;

fragment
Slash
  :  '/'
  ;

fragment
Dollar
  :  '$'
  ;

fragment
GStringQuotationMark
  :  ""
  ;

fragment
SqStringQuotationMark
  :  '\''
  ;
```

```
fragment
TdqStringQuotationMark
  :   """"
  ;

fragment
TsqStringQuotationMark
  :   '\'\''
  ;

fragment
DollarSlashyGStringQuotationMarkBegin
  :   '$/'
  ;

fragment
DollarSlashyGStringQuotationMarkEnd
  :   '/$'
  ;

fragment
DollarSlashEscape
  :   '$/'
  ;

fragment
DollarDollarEscape
  :   '$$'
  ;

// 3.10.7 The Null Literal
NullLiteral
  :   'null'
  ;

// Groovy Operators

RANGE_INCLUSIVE     :
 '..';
RANGE_EXCLUSIVE     : '..<';
SPREAD_DOT          : '*.';
SAFE_DOT            : '?.';
SAFE_CHAIN_DOT      : '??.';
ELVIS               : '?:';
METHOD_POINTER      : '.&';
METHOD_REFERENCE    : '::';
REGEX_FIND          : '=~';
```

```
REGEX_MATCH        : '==~';
POWER              : '**';
POWER_ASSIGN       : '**=';
SPACESHIP          : '<=>';
IDENTICAL          : '===';
NOT_IDENTICAL      : '!==';
ARROW              : '->';

// !internalPromise will be parsed as !in ternalPromise, so semantic predicates are necessary
NOT_INSTANCEOF     : '!instanceof' { isFollowedBy(_input, ' ', '\t', '\r', '\n') }?;
NOT_IN             : '!in'         { isFollowedBy(_input, ' ', '\t', '\r', '\n', '[', '(', '{') }?;


// 3.11 Separators

LPAREN         : '('  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RPAREN         : ')'  { this.exitParen();      } -> popMode;

LBRACE         : '{'  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RBRACE         : '}'  { this.exitParen();
    } -> popMode;

LBRACK         : '['  { this.enterParen();     } -> pushMode(DEFAULT_MODE);
RBRACK         : ']'  { this.exitParen();      } -> popMode;

SEMI           : ';';
COMMA          : ',';
DOT            : Dot;

// 3.12 Operators

ASSIGN         : '=';
GT             : '>';
LT             : '<';
NOT            : '!';
BITNOT         : '~';
QUESTION       : '?';
COLON          : ':';
EQUAL          : '==';
LE             : '<=';
GE             : '>=';
NOTEQUAL       : '!=';
AND            : '&&';
OR             : '||';
INC            : '++';
DEC            : '--';
ADD            : '+';
SUB            : '-';
```

```
MUL            : '*';
DIV            : Slash;
BITAND         : '&';
BITOR          : '|';
XOR            : '^';
MOD            : '%';


ADD_ASSIGN     : '+=';
SUB_ASSIGN     : '-=';
MUL_ASSIGN     : '*=';
DIV_ASSIGN     : '/=';
AND_ASSIGN     : '&=';
OR_ASSIGN      : '|=';
XOR_ASSIGN     : '^=';
MOD_ASSIGN     : '%=';
LSHIFT_ASSIGN  :
 '<<=';
RSHIFT_ASSIGN  : '>>=';
URSHIFT_ASSIGN : '>>>=';
ELVIS_ASSIGN   : '?=';


// 3.8 Identifiers (must appear after all keywords in the grammar)
CapitalizedIdentifier
  :  JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
  ;

Identifier
  :  JavaLetter JavaLetterOrDigit*
  ;

fragment
IdentifierInGString
  :  JavaLetterInGString JavaLetterOrDigitInGString*
  ;

fragment
JavaLetter
  :  [a-zA-Z$_] // these are the "java letters" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;
```

```
fragment
JavaLetterInGString
  :  JavaLetter { _input.LA(-1) != '$' }?
  ;

fragment
JavaLetterOrDigit
   :  [a-zA-Z0-9$_] // these are the "java letters or digits" below 0x7F
  |  // covers all characters above 0x7F which are not a surrogate
     ~[\u0000-\u007F\uD800-\uDBFF]
     { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
  |  // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
     [\uD800-\uDBFF] [\uDC00-\uDFFF]
     { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
  ;

fragment
JavaLetterOrDigitInGString
  :  JavaLetterOrDigit  { _input.LA(-1) != '$' }?
  ;

fragment
ShCommand
  :  ~[\r\n\uFFFF]*
  ;

//
// Additional symbols not defined in the lexical specification
//

AT : '@';
ELLIPSIS : '...';

//
// Whitespace, line escape and comments
//
WS  : ([ \t]+ | LineEscape+) -> skip
  ;

// Inside (...) and [...] but not {...}, ignore newlines.
NL  : LineTerminator   { this.ignoreTokenInsideParens(); }
  ;

// Multiple-line comments (including
 groovydoc comments)
ML_COMMENT
  :  '/*' .*? '*/'       { this.ignoreMultiLineCommentConditionally(); } -> type(NL)
  ;
```

```
// Single-line comments
SL_COMMENT
  :   '//' ~[\r\n\uFFFF]* { this.ignoreTokenInsideParens(); }             -> type(NL)
  ;

// Script-header comments.
// The very first characters of the file may be "#!".  If so, ignore the first line.
SH_COMMENT
  :   '#!' { require(0 == this.tokenIndex, "Shebang comment should appear at the first line", -2, true); } ShCommand
(LineTerminator '#!' ShCommand)* -> skip
  ;

// Unexpected characters will be handled by groovy parser later.
UNEXPECTED_CHAR
  :   .
  ;
```

Found in path(s):
* /groovy-3-0-8-sources-jar/GroovyLexer.g4
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2011 Google Inc. All Rights Reserved.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/package-info.java
No license file was found, but licenses were detected in source scan.

```
/** JSR-241 Groovy Recognizer.
*
* Run 'java Main [-showtree] directory-full-of-groovy-files'
*
* [The -showtree option pops up a Swing frame that shows
```

```
*  the AST constructed from the parser.]
*
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*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
*		fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
*		added tree construction
*		fixed definition of WS,comments for mac,pc,unix newlines
*		added unary plus
* Version 1.11 (Nov 20, 1998)
*		Added "shutup" option to turn off last ambig warning.
*		Fixed inner class def to allow named class defs as statements
*		synchronized requires compound not simple statement
*		add [] after builtInType DOT class in primaryExpression
*		"const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
*		Changed LITERAL_xxx to xxx in tree
 grammar.
*		Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
*		Didn't have (stat)? for else clause in tree parser.
*		Didn't gen ASTs for interface extends.  Updated tree parser too.
*		Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
*		Allowed final/abstract on local classes.
*		Removed local interfaces from methods
*		Put instanceof precedence where it belongs...in relationalExpr
*			It also had expr not type as arg; fixed it.
*		Missing ! on SEMI in classBlock
```

```
*		fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
*		fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
*		Screwed up rule with instanceof in it. :(  Fixed.
*		Tree parser didn't like (expr).something; fixed.
*		Allowed multiple inheritance
 in tree grammar. oops.
* Version 1.16 (August 22, 1999)
*		Extending an interface built a wacky tree: had extra EXTENDS.
*		Tree grammar didn't allow multiple superinterfaces.
*		Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
*		ESC lexer rule allowed 399 max not 377 max.
*		java.tree.g didn't handle the expression of synchronized
*		statements.
* Version 1.18 (August 12, 2001)
*		Terence updated to Java 2 Version 1.3 by
*		observing/combining work of Allan Jacobs and Steve
*		Messick.  Handles 1.3 src.  Summary:
*		o  primary didn't include boolean.class kind of thing
*		o  constructor calls parsed explicitly now:
*		   see explicitConstructorInvocation
*		o  add strictfp modifier
*		o  missing objBlock after new expression in tree grammar
*		o
  merged local class definition alternatives, moved after declaration
*		o  fixed problem with ClassName.super.field
*		o  reordered some alternatives to make things more efficient
*		o  long and double constants were not differentiated from int/float
*		o  whitespace rule was inefficient: matched only one char
*		o  add an examples directory with some nasty 1.3 cases
*		o  made Main.java use buffered IO and a Reader for Unicode support
*		o  supports UNICODE?
*		   Using Unicode charVocabulary makes code file big, but only
*		   in the bitsets at the end. I need to make ANTLR generate
*		   unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
*		Terence added in nice fixes by John Pybus concerning floating
*		constants and problems with super() calls.  John did a nice
*		reorg of the primary/postfix expression
 stuff to read better
*		and makes f.g.super() parse properly (it was METHOD_CALL not
*		a SUPER_CTOR_CALL).  Also:
*
*		o  "finally" clause was a root...made it a child of "try"
*		o  Added stuff for asserts too for Java 1.4, but *commented out*
*		   as it is not backward compatible.
*
```

```
* Version 1.20 (October 27, 2002)
*
*       Terence ended up reorging John Pybus' stuff to
*       remove some nondeterminisms and some syntactic predicates.
*       Note that the grammar is stricter now; e.g., this(...) must
*      be the first statement.
*
*       Trinary ?: operator wasn't working as array name:
*             (isBig ? bigDigits : digits)[i];
*
*       Checked parser/tree parser on source for
*              Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
*            and the 110k-line jGuru server source.
*
* Version 1.21 (October 17, 2003)
*  Fixed lots of problems including:
 *  Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
*  He found a problem/fix with floating point that start with 0
*  Ray also fixed problem that (int.class) was not recognized.
*  Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
*  TJP fixed CHAR_LITERAL analogously.
*
* Version 1.21.2 (March, 2003)
*       Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
*       Notes:
*       o We only allow the "extends" keyword and not the "implements"
*            keyword, since that's what JSR14 seems to imply.
*       o Thanks to Monty Zukowski for his help on the antlr-interest
*            mail list.
*       o Thanks to Alan Eliasen for testing the grammar over his
*            Fink source base
*
* Version 1.22 (July, 2004)
*       Changes by Michael Studman to support Java 1.5 language extensions
*       Notes:
*       o Added support for annotations types
*       o Finished off Matt Quail's generics
 enhancements to support bound type arguments
*       o Added support for new for statement syntax
*       o Added support for static import syntax
*       o Added support for enum types
*       o Tested against JDK 1.5 source base and source base of jdigraph project
*       o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
*       Bug/omission fixes for Java 1.5 language support
*       o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
*            spotting this
```

```
*       o Fixed bug where incorrect handling of SR and BSR tokens would cause type
*           parameters to be recognised as type arguments.
*       o Enabled type parameters on constructors, annotations on enum constants
*           and package definitions
*       o Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
 *       Slight refactoring of Java 1.5 language support
*       o Refactored for/"foreach" productions so that original literal "for" literal
*         is still used but the for sub-clauses vary by token type
*       o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
*       Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
*       and other refactorings
*       o Fixed typeParameters omission in identPrimary and newStatement
*       o Replaced GT reconcilliation code with simple semantic predicate
*       o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
*       o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
*    Small bux fixes
*    o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
*    o Added typeArguments to postfixExpression
 productions for anonymous inner class super
*      constructor invocation, e.g. new Outer().<String>super()
*    o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
*    o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
*      and have applied the groovy.diff from java.g (1.22) by John Rose
*      back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
* Version 1.22.4.g.2
*    o mkempf, rkleeb, Dec 2007
*    o fixed various rules so that they call the correct Create Method
*      to make sure that the line information are correct
*
* Based on an original grammar released in the PUBLIC DOMAIN
*/

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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/java/java.g
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* /groovy-3-0-8-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
*
 /groovy-3-0-8-sources-
jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/package.html
*
/groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/package.html
* /groovy-3-0-8-sources-jar/groovy/util/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/xml/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/package.html
* /groovy-3-0-8-sources-jar/overviewj.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/stmt/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/wrappers/package.html
* /groovy-3-0-8-sources-jar/groovy/inspect/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/javac/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/messages/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/package.html
*
/groovy-3-0-8-sources-jar/overview.html
* /groovy-3-0-8-sources-jar/groovy/time/package.html
* /groovy-3-0-8-sources-jar/groovy/io/package.html
* /groovy-3-0-8-sources-jar/groovy/lang/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/syntax/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/package.html
* /groovy-3-0-8-sources-jar/groovy/grape/defaultGrapeConfig.xml
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/io/package.html
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
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*/

/**
* The Groovy grammar is based on the official grammar for Java:
* https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
*/
parser grammar GroovyParser;

```
options {
  tokenVocab = GroovyLexer;
  contextSuperClass = GroovyParserRuleContext;
  superClass = AbstractParser;
}

@header {
  import java.util.Map;
  import org.codehaus.groovy.ast.NodeMetaDataHandler;
}

@members {

  public static class GroovyParserRuleContext extends ParserRuleContext implements NodeMetaDataHandler {
     private Map metaDataMap = null;

     public GroovyParserRuleContext() {}

     public GroovyParserRuleContext(ParserRuleContext parent, int invokingStateNumber) {
        super(parent, invokingStateNumber);
     }

     @Override
      public Map<?, ?> getMetaDataMap() {
        return this.metaDataMap;
     }

     @Override
     public void setMetaDataMap(Map<?, ?> metaDataMap) {
        this.metaDataMap = metaDataMap;
     }
  }

  @Override
  public int getSyntaxErrorSource() {
     return GroovySyntaxError.PARSER;
  }

  @Override
  public int getErrorLine() {
     Token token = _input.LT(-1);

     if (null == token) {
        return -1;
     }

     return token.getLine();
  }
```

```
  @Override
  public int getErrorColumn() {
     Token token = _input.LT(-1);

     if (null == token) {
        return -1;
     }

     return token.getCharPositionInLine() + 1 + token.getText().length();
  }
}

// starting point for parsing a groovy file
compilationUnit
  :  nls (packageDeclaration sep?)? scriptStatements? EOF
  ;

scriptStatements
  :  scriptStatement (sep scriptStatement)* sep?
  ;

scriptStatement
  :  importDeclaration
 // Import statement.  Can be used in any scope.  Has "import x as y" also.
  |  typeDeclaration
  // validate the method in the AstBuilder#visitMethodDeclaration, e.g. method without method body is not allowed
  |  { !SemanticPredicates.isInvalidMethodDeclaration(_input) }?
     methodDeclaration[3, 9]
  |  statement
  ;

packageDeclaration
  :  annotationsOpt PACKAGE qualifiedName
  ;

importDeclaration
  :  annotationsOpt IMPORT STATIC? qualifiedName (DOT MUL | AS alias=identifier)?
  ;


typeDeclaration
  :  classOrInterfaceModifiersOpt classDeclaration
  ;

modifier
  :  classOrInterfaceModifier
  |  m=(   NATIVE
```

```
        | SYNCHRONIZED
        | TRANSIENT
        | VOLATILE
        | DEF
        | VAR
        )
  ;

modifiersOpt
  : (modifiers nls)?
  ;

modifiers
  : modifier (nls modifier)*
  ;

classOrInterfaceModifiersOpt
  : (classOrInterfaceModifiers
       NL* /* Use `NL*` here for better performance,
 so DON'T replace it with `nls` */
     )?
  ;

classOrInterfaceModifiers
  : classOrInterfaceModifier (nls classOrInterfaceModifier)*
  ;

classOrInterfaceModifier
  : annotation       // class or interface
  | m=(   PUBLIC     // class or interface
        | PROTECTED  // class or interface
        | PRIVATE    // class or interface
        | STATIC     // class or interface
        | ABSTRACT   // class or interface
        | FINAL      // class only -- does not apply to interfaces
        | STRICTFP   // class or interface
        | DEFAULT    // interface only -- does not apply to classes
        )
  ;

variableModifier
  : annotation
  | m=( FINAL
      | DEF
      | VAR
      // Groovy supports declaring local variables as instance/class fields,
      // e.g. import groovy.transform.*; @Field static List awe = [1, 2, 3]
      // e.g. import groovy.transform.*; def a = { @Field public List awe
```

```
 = [1, 2, 3] }
        // Notice: Groovy 2.4.7 just allows to declare local variables with the following modifiers when using annotations(e.g. @Field)
        // TODO check whether the following modifiers accompany annotations or not. Because the legacy codes(e.g. benchmark/bench/heapsort.groovy) allow to declare the special instance/class fields without annotations, we leave it as it is for the time being
        | PUBLIC
        | PROTECTED
        | PRIVATE
        | STATIC
        | ABSTRACT
        | STRICTFP
        )
  ;

variableModifiersOpt
  :  (variableModifiers nls)?
  ;

variableModifiers
  :  variableModifier (nls variableModifier)*
  ;

typeParameters
  :  LT nls typeParameter (COMMA nls typeParameter)* nls GT
  ;

typeParameter
  :  className (EXTENDS nls typeBound)?
  ;

typeBound
  :  type (BITAND nls type)*
  ;

typeList
  :  type (COMMA nls type)*
  ;



/**
*  t   0: class; 1: interface; 2: enum; 3: annotation; 4:
 trait
*/
classDeclaration
locals[ int t ]
  :  (   CLASS { $t = 0; }
     |   INTERFACE { $t = 1; }
```

```
    |   ENUM { $t = 2; }
    |   AT INTERFACE { $t = 3; }
    |   TRAIT { $t = 4; }
    )
    identifier
    (nls typeParameters)?
    (nls EXTENDS nls scs=typeList)?
    (nls IMPLEMENTS nls is=typeList)?
    nls classBody[$t]
  ;

// t    see the comment of classDeclaration
classBody[int t]
  :   LBRACE nls
    (
      /* Only enum can have enum constants */
      { 2 == $t }?
      enumConstants (nls COMMA)? sep?
    |
    )
    (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE
  ;

enumConstants
  :   enumConstant (nls COMMA nls enumConstant)*
  ;

enumConstant
  :   annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?
  ;

classBodyDeclaration[int t]
  :   (STATIC nls)? block
  |   memberDeclaration[$t]
  ;

memberDeclaration[int t]
  :   methodDeclaration[0,
 $t]
  |   fieldDeclaration
  |   modifiersOpt classDeclaration
  ;

/**
*  t   0: *class member* all kinds of method declaration AND constructor declaration,
*      1: normal method declaration, 2: abstract method declaration
*      3: normal method declaration OR abstract method declaration
*  ct  9: script, other see the comment of classDeclaration
```

```
*/
methodDeclaration[int t, int ct]
  :  modifiersOpt typeParameters? (returnType[$ct] nls)?
     methodName formalParameters
     (
        DEFAULT nls elementValue
     |
        (nls THROWS nls qualifiedClassNameList)?
        (nls methodBody)?
     )?
  ;

methodName
  :  identifier
  |  stringLiteral
  ;

returnType[int ct]
  :
     standardType
  |  VOID
  ;

fieldDeclaration
  :  variableDeclaration[1]
  ;

variableDeclarators
  :  variableDeclarator (COMMA nls variableDeclarator)*
  ;

variableDeclarator
  :  variableDeclaratorId (nls ASSIGN nls variableInitializer)?
   ;

variableDeclaratorId
  :  identifier
  ;

variableInitializer
  :  enhancedStatementExpression
  ;

variableInitializers
  :  variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
  ;

emptyDims
```

```
  :  (annotationsOpt LBRACK RBRACK)+
  ;

emptyDimsOpt
  :  emptyDims?
  ;

standardType
options { baseContext = type; }
  :  annotationsOpt
     (
        primitiveType
     |
        standardClassOrInterfaceType
     )
     emptyDimsOpt
  ;

type
  :  annotationsOpt
     (
        (
           primitiveType
        |
           // !!! Error Alternative !!!
            VOID
        )
     |
           generalClassOrInterfaceType
     )
     emptyDimsOpt
  ;

classOrInterfaceType
  :  (   qualifiedClassName
     |   qualifiedStandardClassName
     ) typeArguments?
  ;

generalClassOrInterfaceType
options { baseContext = classOrInterfaceType; }

  :  qualifiedClassName typeArguments?
  ;

standardClassOrInterfaceType
options { baseContext = classOrInterfaceType; }
  :  qualifiedStandardClassName typeArguments?
```

```
  ;

primitiveType
  :  BuiltInPrimitiveType
  ;

typeArguments
  :  LT nls typeArgument (COMMA nls typeArgument)* nls GT
  ;

typeArgument
  :  type
  |  annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
  ;

annotatedQualifiedClassName
  :  annotationsOpt qualifiedClassName
  ;

qualifiedClassNameList
  :  annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
  ;

formalParameters
  :  LPAREN formalParameterList? rparen
  ;

formalParameterList
  :  (formalParameter | thisFormalParameter) (COMMA nls formalParameter)*
  ;

thisFormalParameter
  :  type THIS
  ;

formalParameter
  :  variableModifiersOpt type? ELLIPSIS? variableDeclaratorId (nls ASSIGN nls expression)?
  ;

methodBody
  :  block
  ;

qualifiedName
  :  qualifiedNameElement
 (DOT qualifiedNameElement)*
  ;
```

```
/**
*  Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
*  for them in package names for better integration with existing Java packages
*/
qualifiedNameElement
  :  identifier
  |  DEF
  |  IN
  |  AS
  |  TRAIT
  ;

qualifiedNameElements
  :  (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  :  qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  :  qualifiedNameElements className (DOT className)*
  ;

literal
  :  IntegerLiteral                                    #integerLiteralAlt
  |  FloatingPointLiteral                                 #floatingPointLiteralAlt
  |  stringLiteral                                    #stringLiteralAlt
  |  BooleanLiteral                                     #booleanLiteralAlt
  |  NullLiteral
                                          #nullLiteralAlt
  ;

// GSTRING

gstring
  :  GStringBegin gstringValue (GStringPart  gstringValue)* GStringEnd
  ;

gstringValue
  :  gstringPath
  |  closure
  ;

gstringPath
  :  identifier GStringPathPart*
  ;
```

```
// LAMBDA EXPRESSION
lambdaExpression
options { baseContext = standardLambdaExpression; }
  :  lambdaParameters nls ARROW nls lambdaBody
  ;

// JAVA STANDARD LAMBDA EXPRESSION
standardLambdaExpression
  :  standardLambdaParameters nls ARROW nls lambdaBody
  ;

lambdaParameters
options { baseContext = standardLambdaParameters; }
  :  formalParameters

  // { a -> a * 2 } can be parsed as a lambda expression in a block, but we expect a closure.
  // So it is better to put parameters in the parentheses and the following single parameter without parentheses is
limited
//   |  variableDeclaratorId
  ;

standardLambdaParameters
  :  formalParameters
  |
  variableDeclaratorId
  ;

lambdaBody
  :  block
  |  statementExpression
  ;

// CLOSURE
closure
  :  LBRACE (nls (formalParameterList nls)? ARROW)? sep? blockStatementsOpt RBRACE
  ;

// GROOVY-8991: Difference in behaviour with closure and lambda
closureOrLambdaExpression
  :  closure
  |  lambdaExpression
  ;

blockStatementsOpt
  :  blockStatements?
  ;
```

```
blockStatements
  :  blockStatement (sep blockStatement)* sep?
  ;

// ANNOTATIONS

annotationsOpt
  :  (annotation (nls annotation)* nls)?
  ;

annotation
  :  AT annotationName (nls LPAREN elementValues? rparen)?
  ;

elementValues
  :  elementValuePairs
  |  elementValue
  ;

annotationName : qualifiedClassName ;

elementValuePairs
  :  elementValuePair (COMMA elementValuePair)*
  ;

elementValuePair
  :  elementValuePairName nls ASSIGN nls elementValue
  ;

elementValuePairName
  :  identifier
  |  keywords
  ;

// TODO verify the potential performance issue
 because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  :  elementValueArrayInitializer
  |  annotation
  |  expression
  ;

elementValueArrayInitializer
  :  LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
  ;

// STATEMENTS / BLOCKS
```

```
block
  :  LBRACE sep? blockStatementsOpt RBRACE
  ;

blockStatement
  :  localVariableDeclaration
  |  statement
  ;

localVariableDeclaration
  :  { !SemanticPredicates.isInvalidLocalVariableDeclaration(_input) }?
     variableDeclaration[0]
  ;

/**
*  t   0: local variable declaration; 1: field declaration
*/
variableDeclaration[int t]
  :  modifiers nls
     (   type? variableDeclarators
     |   typeNamePairs nls ASSIGN nls variableInitializer
     )
  |
     type variableDeclarators
  ;

typeNamePairs
  :  LPAREN typeNamePair (COMMA typeNamePair)* rparen
  ;

typeNamePair
  :  type? variableDeclaratorId
  ;

variableNames
   :  LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
  ;

conditionalStatement
  :  ifElseStatement
  |  switchStatement
  ;

ifElseStatement
  :  IF expressionInPar nls tb=statement ((nls | sep) ELSE nls fb=statement)?
  ;

switchStatement
```

```
  :  SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
  ;

loopStatement
  :  FOR LPAREN forControl rparen nls statement                    #forStmtAlt
  |  WHILE expressionInPar nls statement                           #whileStmtAlt
  |  DO nls statement nls WHILE expressionInPar                    #doWhileStmtAlt
  ;

continueStatement
  :  CONTINUE
     identifier?
  ;

breakStatement
  :  BREAK
     identifier?
  ;

tryCatchStatement
  :  TRY resources? nls block
     (nls catchClause)*
     (nls finallyBlock)?
   ;

assertStatement
  :  ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
  ;

statement
  :  block                                                         #blockStmtAlt
  |  conditionalStatement                                          #conditionalStmtAlt
  |  loopStatement                                                 #loopStmtAlt
  |  tryCatchStatement                                             #tryCatchStmtAlt
  |  SYNCHRONIZED expressionInPar nls block                        #synchronizedStmtAlt
  |  RETURN expression?                                            #returnStmtAlt
  |  THROW expression                                              #throwStmtAlt
  |  breakStatement
                                                                   #breakStmtAlt
  |  continueStatement                                             #continueStmtAlt
  |  identifier COLON nls statement                                #labeledStmtAlt
  |  assertStatement                                               #assertStmtAlt
  |  localVariableDeclaration                                      #localVariableDeclarationStmtAlt
  |  statementExpression                                           #expressionStmtAlt
  |  SEMI                                                          #emptyStmtAlt
  ;

catchClause
```

```
  :  CATCH LPAREN variableModifiersOpt catchType? identifier rparen nls block
  ;

catchType
  :  qualifiedClassName
 (BITOR qualifiedClassName)*
  ;

finallyBlock
  :  FINALLY nls block
  ;

resources
  :  LPAREN nls resourceList sep? rparen
  ;

resourceList
  :  resource (sep resource)*
  ;

resource
  :  localVariableDeclaration
  |  expression
  ;


/** Matches cases then statements, both of which are mandatory.
*  To handle empty cases at the end, we add switchLabel* to statement.
*/
switchBlockStatementGroup
  :  switchLabel (nls switchLabel)* nls blockStatements
  ;

switchLabel
  :  CASE expression COLON
  |  DEFAULT COLON
  ;

forControl
  :  enhancedForControl
  |  classicalForControl
  ;

enhancedForControl
  :  variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
  ;

classicalForControl
```

```
  :  forInit? SEMI expression? SEMI forUpdate?
  ;

forInit
  :  localVariableDeclaration
  |  expressionList[false]
  ;

forUpdate
  :  expressionList[false]
  ;


// EXPRESSIONS

castParExpression
  :
 LPAREN type rparen
  ;

parExpression
  :  expressionInPar
  ;

expressionInPar
  :  LPAREN enhancedStatementExpression rparen
  ;

expressionList[boolean canSpread]
  :  expressionListElement[$canSpread] (COMMA expressionListElement[$canSpread])*
  ;

expressionListElement[boolean canSpread]
  :  MUL? expression
  ;

enhancedStatementExpression
  :  statementExpression
  |  standardLambdaExpression
  ;

statementExpression
  :  commandExpression                #commandExprAlt
  ;

postfixExpression
  :  pathExpression op=(INC | DEC)?
  ;
```

```
expression
  // must come before postfixExpression to resovle the ambiguities between casting and call on parentheses
expression, e.g. (int)(1 / 2)
  :   castParExpression castOperandExpression                                    #castExprAlt

  // qualified names, array expressions, method invocation, post inc/dec
  |   postfixExpression
          #postfixExprAlt

  // ~(BNOT)/!(LNOT) (level 1)
  |   (BITNOT | NOT) nls expression                                              #unaryNotExprAlt

  // math power operator (**) (level 2)
  |   left=expression op=POWER nls right=expression                              #powerExprAlt

  // ++(prefix)/--(prefix)/+(unary)/-(unary) (level 3)
  |   op=(INC | DEC | ADD | SUB) expression                                      #unaryAddExprAlt

  // multiplication/division/modulo (level 4)
  |   left=expression nls op=(MUL | DIV | MOD) nls right=expression              #multiplicativeExprAlt

  // binary addition/subtraction (level 5)
  |   left=expression op=(ADD | SUB) nls right=expression                        #additiveExprAlt

  // bit shift expressions (level 6)
  |   left=expression nls
      (          (   dlOp=LT LT
                 |   tgOp=GT GT GT
                 |   dgOp=GT GT


             )
      |   rangeOp=(    RANGE_INCLUSIVE
                 |    RANGE_EXCLUSIVE
                 )
      ) nls
    right=expression                                                           #shiftExprAlt

  // boolean relational expressions (level 7)
  |   left=expression nls op=(AS | INSTANCEOF | NOT_INSTANCEOF) nls type       #relationalExprAlt
  |   left=expression nls op=(LE | GE | GT | LT | IN | NOT_IN)  nls right=expression     #relationalExprAlt

  // equality/inequality (==/!=) (level 8)
  |   left=expression nls
        op=(    IDENTICAL
          |    NOT_IDENTICAL
          |    EQUAL
          |    NOTEQUAL
```

```
            |   SPACESHIP
            ) nls
        right=expression                                        #equalityExprAlt

    // regex find and match (=~ and ==~) (level 8.5)
    // jez: moved =~ closer to precedence of == etc, as...

    // 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
    |   left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression           #regexExprAlt

    // bitwise or non-short-circuiting and (&)  (level 9)
    |   left=expression nls op=BITAND nls right=expression                      #andExprAlt

    // exclusive or (^)  (level 10)
    |   left=expression nls op=XOR nls right=expression                         #exclusiveOrExprAlt

    // bitwise or non-short-circuiting or (|)  (level 11)
    |   left=expression nls op=BITOR nls right=expression                       #inclusiveOrExprAlt

    // logical and (&&)  (level 12)
    |   left=expression nls op=AND nls right=expression                         #logicalAndExprAlt

    // logical or (||)  (level 13)
    |   left=expression nls op=OR nls right=expression                          #logicalOrExprAlt

    // conditional test (level 14)
    |   <assoc=right>
   con=expression nls
        (   QUESTION nls tb=expression nls COLON nls
        |   ELVIS nls
        )
        fb=expression                                           #conditionalExprAlt

    // assignment expression (level 15)
    // "(a) = [1]" is a special case of multipleAssignmentExprAlt, it will be handle by assignmentExprAlt
    |   <assoc=right> left=variableNames nls op=ASSIGN nls right=statementExpression
  #multipleAssignmentExprAlt
    |   <assoc=right> left=expression nls
                    op=(    ASSIGN
                      |   ADD_ASSIGN
                      |   SUB_ASSIGN
                      |   MUL_ASSIGN
                      |   DIV_ASSIGN
                      |   AND_ASSIGN
                      |   OR_ASSIGN
                      |   XOR_ASSIGN
                      |   RSHIFT_ASSIGN
                      |   URSHIFT_ASSIGN
```

```
                | LSHIFT_ASSIGN
                | MOD_ASSIGN
                | POWER_ASSIGN
                | ELVIS_ASSIGN
                ) nls
            enhancedStatementExpression                         #assignmentExprAlt
  ;

castOperandExpression
options { baseContext = expression; }
  : castParExpression castOperandExpression                     #castExprAlt

  | postfixExpression                                           #postfixExprAlt

  // ~(BNOT)/!(LNOT)
  | (BITNOT | NOT) nls castOperandExpression                    #unaryNotExprAlt

  // ++(prefix)/--(prefix)/+(unary)/-(unary)
  | op=(INC | DEC | ADD | SUB) castOperandExpression            #unaryAddExprAlt
  ;

commandExpression
  : expression
    (
      { !SemanticPredicates.isFollowingArgumentsOrClosure($expression.ctx) }?
      argumentList
    |
      /* if pathExpression is a method call, no need to have any more arguments */
    )

    commandArgument*
  ;

commandArgument
  : commandPrimary
    // what follows is either a normal argument, parens,
    // an appended block, an index operation, or nothing
    // parens (a b already processed):
    //     a b c() d e -> a(b).c().d(e)
    //     a b c()() d e -> a(b).c().call().d(e)
    // index (a b already processed):
    //     a b c[x] d e -> a(b).c[x].d(e)
    //     a b c[x][y] d e -> a(b).c[x][y].d(e)
    // block (a b already processed):
    //     a b c {x} d e -> a(b).c({x}).d(e)
    //
    // parens/block completes method call
    // index makes method call to property get with index
```

```
      //
      (   pathElement+
      |   argumentList
      )?
  ;

/**
*  A "path expression" is a name or other primary, possibly qualified by various
*  forms of dot, and/or
 followed by various kinds of brackets.
*  It can be used for value or assigned to, or else further qualified, indexed, or called.
*  It is called a "path" because it looks like a linear path through a data structure.
*  Examples:  x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
*  (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
*  General expressions are built up from path expressions, using operators like '+' and '='.
*
*  t   0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
*      6: non-static inner class creator
*/
pathExpression returns [int t]
  :  (
        primary
     |
        // if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
        { _input.LT(2).getType() == DOT }?
        STATIC
     ) (pathElement { $t = $pathElement.t; })*
  ;

pathElement returns [int t]
  :  nls

 (
        // AT: foo.@bar selects the field (or attribute), not property
        (
           (   DOT               // The all-powerful dot.
           |   SPREAD_DOT        // Spread operator:  x*.y  ===  x?.collect{it.y}
           |   SAFE_DOT          // Optional-null operator:  x?.y  === (x==null)?null:x.y
           |   SAFE_CHAIN_DOT     // Optional-null chain operator:  x??.y.z  === x?.y?.z
           ) nls (AT | nonWildcardTypeArguments)?
        |
           METHOD_POINTER nls     // Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
        |
           METHOD_REFERENCE nls    // Method reference: System.out::println
        )
        namePart
```

```
        { $t = 1; }
    |
        DOT nls NEW creator[1]
        { $t = 6; }

        // Can always append a block, as foo{bar}
    |   closureOrLambdaExpression
        { $t = 3; }
    )

  |   arguments

   { $t = 2; }

  // Element selection is always an option, too.
  // In Groovy, the stuff between brackets is a general argument list,
  // since the bracket operator is transformed into a method call.
  |   indexPropertyArgs
      { $t = 4; }

  |   namedPropertyArgs
      { $t = 5; }
  ;

/**
*  This is the grammar for what can follow a dot:  x.a, x.@a, x.&a, x.'a', etc.
*/
namePart
  :
    (   identifier

    // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
    |   stringLiteral

    |   dynamicMemberName

    /* just a PROPOSAL, which has not been implemented yet!
    // PROPOSAL, DECIDE:  Is this inline form of the 'with' statement useful?
    // Definition:  a.{foo} === {with(a) {foo}}
    // May cover some path expression use-cases previously handled by dynamic scoping (closure delegates).
    |   block
    */

    // let's allow common keywords as property names
    |
  keywords
    )
  ;
```

```
/**
*  If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
*  and the member selection is done only at runtime.  This forces a statically unchecked member access.
*/
dynamicMemberName
  :  parExpression
  |  gstring
  ;

/** An expression may be followed by [...].
*  Unlike Java, these brackets may contain a general argument list,
*  which is passed to the array element operator, which can make of it what it wants.
*  The brackets may also be empty, as in T[].  This is how Groovy names array types.
*/
indexPropertyArgs
  :  QUESTION? LBRACK expressionList[true]? RBRACK
  ;

namedPropertyArgs
  :  QUESTION? LBRACK (namedPropertyArgList | COLON) RBRACK
  ;

primary
  :
     // Append `typeArguments?` to `identifier` to support constructor reference with generics, e.g.
HashMap<String, Integer>::new
     // Though this is not a graceful solution, it is much faster than replacing `builtInType`
 with `type`
     identifier typeArguments?                                  #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  NEW nls creator[0]                                       #newPrmrAlt
  |  THIS                                                     #thisPrmrAlt
  |  SUPER                                                    #superPrmrAlt
  |  parExpression                                            #parenPrmrAlt
  |  closureOrLambdaExpression                                #closureOrLambdaExpressionPrmrAlt
  |  list                                                     #listPrmrAlt
   |  map                                                     #mapPrmrAlt
  |  builtInType                                              #builtInTypePrmrAlt
  ;

namedPropertyArgPrimary
options { baseContext = primary; }
  :  identifier                                               #identifierPrmrAlt
  |  literal                                                  #literalPrmrAlt
  |  gstring                                                  #gstringPrmrAlt
  |  parExpression                                            #parenPrmrAlt
```

```
  ;

namedArgPrimary
options { baseContext = primary; }
  :  identifier                                          #identifierPrmrAlt
  |  literal                                            #literalPrmrAlt
  |
 gstring                                                #gstringPrmrAlt
  ;

commandPrimary
options { baseContext = primary; }
  :  identifier                                          #identifierPrmrAlt
  |  literal                                            #literalPrmrAlt
  |  gstring                                             #gstringPrmrAlt
  ;

list
  :  LBRACK expressionList[true]? COMMA? RBRACK
  ;

map
  :  LBRACK
     (  mapEntryList COMMA?
     |  COLON
     )
     RBRACK
  ;

mapEntryList
  :  mapEntry (COMMA mapEntry)*
  ;

namedPropertyArgList
options { baseContext = mapEntryList; }
  :  namedPropertyArg (COMMA namedPropertyArg)*
  ;

mapEntry
  :  mapEntryLabel COLON nls expression
  |  MUL COLON nls expression
  ;

namedPropertyArg
options { baseContext = mapEntry; }
  :  namedPropertyArgLabel
 COLON nls expression
  |  MUL COLON nls expression
```

```
  ;

namedArg
options { baseContext = mapEntry; }
  :  namedArgLabel COLON nls expression
  |  MUL COLON nls expression
  ;

mapEntryLabel
  :  keywords
  |  primary
  ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedPropertyArgPrimary
  ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  :  keywords
  |  namedArgPrimary
  ;

/**
*  t 0: general creation; 1: non-static inner class creation
*/
creator[int t]
  :  createdName
     (  nls arguments anonymousInnerClassDeclaration[0]?
     |  dim+ (nls arrayInitializer)?
     )
  ;

dim
  :  annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  :  LBRACE nls (variableInitializers nls)? RBRACE
  ;

/**
*  t  0: anonymous inner class; 1: anonymous enum
*/
anonymousInnerClassDeclaration[int t]
  :  classBody[0]
```

```
  ;

createdName
  :  annotationsOpt

 (  primitiveType
    |  qualifiedClassName typeArgumentsOrDiamond?
    )
  ;

nonWildcardTypeArguments
  :  LT nls typeList nls GT
  ;

typeArgumentsOrDiamond
  :  LT GT
  |  typeArguments
  ;

arguments
  :  LPAREN enhancedArgumentListInPar? COMMA? rparen
  ;

argumentList
options { baseContext = enhancedArgumentListInPar; }
  :  firstArgumentListElement
     (  COMMA nls
        argumentListElement
     )*
  ;

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  :  firstEnhancedArgumentListElement
     (  COMMA nls
        enhancedArgumentListElement
     )*
  ;

enhancedArgumentListInPar
  :  enhancedArgumentListElement
     (  COMMA nls
        enhancedArgumentListElement
     )*
  ;

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
```

```
  :  expressionListElement[true]
  |  namedArg
  ;

argumentListElement
options { baseContext = enhancedArgumentListElement;
 }
  :  expressionListElement[true]
  |  namedPropertyArg
  ;

firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedArg
  ;

enhancedArgumentListElement
  :  expressionListElement[true]
  |  standardLambdaExpression
  |  namedPropertyArg
  ;

stringLiteral
  :  StringLiteral
  ;

className
  :  CapitalizedIdentifier
  ;

identifier
  :  Identifier
  |  CapitalizedIdentifier
  |  VAR
  |  IN
// |  DEF
  |  TRAIT
  |  AS
  ;

builtInType
  :  BuiltInPrimitiveType
  |  VOID
  ;

keywords
```

: ABSTRACT
| AS
| ASSERT
| BREAK
| CASE
| CATCH
| CLASS
| CONST
| CONTINUE
| DEF
| DEFAULT
| DO
| ELSE
| ENUM
| EXTENDS
| FINAL
| FINALLY
| FOR
| GOTO
| IF
| IMPLEMENTS
| IMPORT
| IN
| INSTANCEOF
| INTERFACE
| NATIVE
| NEW
| PACKAGE
| RETURN
| STATIC
| STRICTFP
| SUPER
| SWITCH
| SYNCHRONIZED
| THIS
| THROW
| THROWS
| TRANSIENT
| TRAIT
| THREADSAFE
| TRY
| VAR
| VOLATILE
| WHILE

| NullLiteral
| BooleanLiteral

```
  | BuiltInPrimitiveType
  | VOID

  | PUBLIC
  | PROTECTED
  | PRIVATE
  ;

rparen
  : RPAREN
  ;

nls
  : NL*
  ;

sep :  (NL | SEMI)+
  ;
```

Found in path(s):
* /groovy-3-0-8-sources-jar/GroovyParser.g4
No license file was found, but licenses were detected in source scan.

```
# Licensed to the Apache Software Foundation (ASF) under one or more
# contributor license agreements.  See the NOTICE file distributed with
# this work for additional information regarding copyright ownership.
# The ASF licenses this file to You under the Apache License, Version 2.0
# (the "License"); you may not use this file except in compliance with
# the License.  You may obtain a copy of the License at
#
#     http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.

# Format: one extension on each line without the leading "*."
# Listed below are default groovy source file extensions.

# NOTE: This implementation
 of supporting multiple file extensions is experimental and
# the exact implementation details may vary when modularization gets introduced in
# groovy 2.0. However, in terms of the behavior, this support will remain intact.
groovy
```

Found in path(s):

* /groovy-3-0-8-sources-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions
No license file was found, but licenses were detected in source scan.

```
/*
*  Licensed to the Apache Software Foundation (ASF) under one
*  or more contributor license agreements.  See the NOTICE file
*  distributed with this work for additional information
*  regarding copyright ownership.  The ASF licenses this file
*  to you under the Apache License, Version 2.0 (the
*  "License"); you may not use this file except in compliance
*  with the License.  You may obtain a copy of the License at
*
*    http://www.apache.org/licenses/LICENSE-2.0
*
*  Unless required by applicable law or agreed to in writing,
*  software distributed under the License is distributed on an
*  "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
*  KIND, either express or implied.  See the License for the
*  specific language governing permissions and limitations
*  under the License.
*/
```

Found in path(s):
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/Reflector.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/ParameterTypes.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/MetaClassConstructorSite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/DgmConverter.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/AbstractLexer.java
* /groovy-3-0-8-sources-jar/groovy/util/NodePrinter.java
* /groovy-3-0-8-sources-jar/groovy/lang/ClosureException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/InnerClassVisitor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v8/IndyMath.java
* /groovy-3-0-8-sources-jar/groovy/lang/GroovyClassLoader.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/LongArrayIterable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
* /groovy-3-0-8-sources-jar/groovy/lang/Tuple5.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/decompiled/MemberSignatureParser.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingSupport.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/InvokerHelper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/ExternalizeVerifierASTTransformation.java
* /groovy-3-0-8-sources-jar/groovy/transform/ThreadInterrupt.groovy
* /groovy-3-0-8-sources-jar/groovy/transform/Immutable.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/powerassert/Value.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/indy/sc/IndyStaticTypesMultiTypeDispatcher.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMinus.java

* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/MethodCaller.java
* /groovy-3-0-8-sources-jar/groovy/transform/Synchronized.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/DefaultMetaClassInfo.java
*
 /groovy-3-0-8-sources-jar/groovy/lang/Tuple15.java
* /groovy-3-0-8-sources-jar/groovy/transform/options/Visibility.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/messages/WarningMessage.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaClassSite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/ProcessingUnit.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/CompilerConfiguration.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/ProxyGeneratorAdapter.java
* /groovy-3-0-8-sources-jar/groovy/io/EncodingAwareBufferedWriter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/SemanticPredicates.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java
* /groovy-3-0-8-sources-jar/groovy/transform/PackageScopeTarget.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/DoubleArrayIterable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/io/ReaderSource.java
* /groovy-3-0-8-sources-jar/groovy/lang/Writable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/GroovySunClassLoader.java
* /groovy-3-0-8-sources-jar/groovy/xml/QName.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java
* /groovy-3-0-8-sources-jar/groovy/transform/TimedInterrupt.groovy
* /groovy-3-0-8-sources-jar/groovy/lang/Tuple8.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java
* /groovy-3-0-8-sources-jar/groovy/ui/GroovySocketServer.java
* /groovy-3-0-8-sources-jar/groovy/util/IndentPrinter.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/CacheAccessControlException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v9/Java9.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryExpressionMultiTypeDispatcher.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/BytecodeProcessor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ConstructorNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/EnumTypeCheckingExtension.java
* /groovy-3-0-8-sources-jar/groovy/lang/GroovySystem.java
* /groovy-3-0-8-sources-jar/groovy/beans/ListenerList.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/FloatArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/transformers/VariableExpressionTransformer.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/ASTTransformationsContext.java
* /groovy-3-0-8-sources-jar/groovy/lang/Newify.java

* /groovy-3-0-8-sources-jar/groovy/transform/SourceURI.java
* /groovy-3-0-8-sources-jar/groovy/util/ResourceConnector.java
* /groovy-3-0-8-sources-jar/groovy/transform/VisibilityOptions.java
* /groovy-3-0-8-sources-jar/groovy/cli/TypedOption.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/ScriptRunner.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/IntArrayIterable.java
* /groovy-3-0-8-sources-jar/groovy/transform/InheritConstructors.java
* /groovy-3-0-8-sources-jar/groovy/lang/Script.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/SourceUnit.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/BytecodeInterface8.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/GeneratedClosure.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/tools/ParameterUtils.java
*
 /groovy-3-0-8-sources-jar/groovy/transform/NullCheck.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/SignatureCodecVersion1.java
* /groovy-3-0-8-sources-jar/groovy/transform/options/LegacyHashMapPropertyHandler.java
* /groovy-3-0-8-sources-jar/groovy/transform/TypeCheckingMode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/GroovySourceAST.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayGetAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/java/Groovifier.java
* /groovy-3-0-8-sources-jar/groovy/cli/internal/OptionAccessor.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/ExpressionTransformer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/CachedClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/AutoCloneASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/ManagedConcurrentMap.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/ReturnAdder.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/LexerFrame.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/LongArrayIterator.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoFieldSite.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/CachedClosureClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/ASTParserException.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/SourceExtensionHandler.java
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* /groovy-3-0-8-sources-jar/groovy/lang/EmptyRange.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/genArrayAccess.groovy
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/SunClassLoader.java
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* /groovy-3-0-8-sources-jar/groovy/lang/ExpandoMetaClass.java
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* /groovy-3-0-8-sources-jar/groovy/time/TimeDatumDependentDuration.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/BinaryExpression.java
* /groovy-3-0-8-sources-jar/groovy/lang/MetaClassImpl.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/AnnotationNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/ReverseListIterator.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/ByteCachedClass.java
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/groovy-3-0-8-sources-jar/groovy/lang/GString.java
* /groovy-3-0-8-sources-jar/groovy/transform/builder/ExternalStrategy.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/Maps.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/CompositeVisitor.java
* /groovy-3-0-8-sources-jar/groovy/transform/AutoFinal.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ClassHelper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/stmt/SynchronizedStatement.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/AbstractInterruptibleASTTransformation.java
* /groovy-3-0-8-sources-jar/groovy/transform/ImmutableBase.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/GroovyTypeCheckingExtensionSupport.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/StaticVerifier.java
* /groovy-3-0-8-sources-jar/groovy/lang/GrabConfig.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java
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* /groovy-3-0-8-sources-jar/groovy/beans/VetoableASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v8/MethodHandleWrapper.java

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* /groovy-3-0-8-sources-jar/groovy/transform/Undefined.java
* /groovy-3-0-8-sources-jar/groovy/lang/GroovyCodeSource.java
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* /groovy-3-0-8-sources-jar/groovy/util/OrderBy.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/GroovyClassVisitor.java

* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/plugin/GroovyRunner.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/StatementMetaTypeChooser.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaMethodSite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/wrappers/IntWrapper.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/stmt/ExpressionStatement.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/MethodCall.java
* /groovy-3-0-8-sources-jar/groovy/transform/CompilationUnitAware.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/LazyReference.java
* /groovy-3-0-8-sources-jar/groovy/lang/Tuple14.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/PickFirstResolver.java
* /groovy-3-0-8-sources-jar/groovy/transform/ImmutableOptions.java
* /groovy-3-0-8-sources-jar/groovy/cli/Option.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/memoize/NullProtectionStorage.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/syntax/Numbers.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassSite.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/syntax/Reduction.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/Reference.java
* /groovy-3-0-8-sources-jar/groovy/util/FileTreeBuilder.groovy
* /groovy-3-0-8-sources-jar/groovy/transform/ToString.java
* /groovy-3-0-8-sources-jar/groovy/beans/DefaultPropertyReader.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/AbstractExtensionMethodCache.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/MethodClosure.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/UnaryPlusExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayGetAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/javac/JavaAwareCompilationUnit.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/GroovyClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaMethod.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryFloatExpressionHelper.java
* /groovy-3-0-8-sources-jar/groovy/util/Eval.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/io/StringBuilderWriter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/ConvertedMap.java
* /groovy-3-0-8-sources-jar/groovy/lang/Reference.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/GroovyCodeVisitor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/messages/SyntaxErrorMessage.java
* /groovy-3-0-8-sources-jar/groovy/util/ScriptException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/NodeAsHTMLPrinter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/SynchronizedASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/memoize/EvictableCache.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/customizers/builder/ImportCustomizerFactory.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/io/NullWriter.java

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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v7/TypeTransformers.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/plugin/DefaultRunners.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/ManagedReference.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/DoubleArrayIterator.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/ErrorReporter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/wrappers/CharWrapper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterController.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/ast/TransformTestHelper.groovy
* /groovy-3-0-8-sources-jar/groovy/lang/groovydoc/GroovydocHolder.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterControllerFactoryImpl.java
* /groovy-3-0-8-sources-jar/groovy/transform/EqualsAndHashCode.java
*
 /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/trait/TraitHelpersTuple.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ModuleNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/ConstructorSite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryBooleanExpressionHelper.java
* /groovy-3-0-8-sources-jar/groovy/lang/GroovyObject.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/UnionTypeClassNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/java/Java2GroovyProcessor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/transformers/ConstructorCallTransformer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/memoize/StampedCommonCache.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/HasCleanup.java
* /groovy-3-0-8-sources-jar/groovy/lang/Groovydoc.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMultiply.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/IteratorBufferedIterator.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/ArrayUtil.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/Antlr4ParserPlugin.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/GroovyClassValueFactory.java
* /groovy-3-0-8-sources-jar/groovy/util/logging/Log4j.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryObjectExpressionHelper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BinaryIntExpressionHelper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/gse/StringSetMap.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/UnaryExpressionHelper.java
* /groovy-3-0-8-sources-jar/groovy/transform/WithReadLock.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/HandleMetaClass.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/MethodReferenceExpressionWriter.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/AbstractASTTransformUtil.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/BytecodeDumper.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/Finalizable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/StaticMethodCallExpression.java
* /groovy-3-0-8-sources-jar/groovy/io/FileVisitResult.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/SingleKeyHashMap.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java

* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/SourceInfo.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v9/ClassFindFailedException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayPutAtMetaMethod.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/tools/GeneralUtils.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/BooleanReturningMethodInvoker.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/genMathModification.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/shell/IO.java
* /groovy-3-0-8-sources-jar/groovy/transform/ConditionalInterrupt.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/trait/Traits.java
* /groovy-3-0-8-sources-jar/groovy/lang/Tuple9.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/StatementWriter.java
* /groovy-3-0-8-sources-jar/groovy/transform/TupleConstructor.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/ast/tools/VisibilityUtils.java
* /groovy-3-0-8-sources-jar/groovy/util/FactoryBuilderSupport.java
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 /groovy-3-0-8-sources-jar/groovy/transform/stc/IncorrectTypeHintException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/ManagedLinkedList.java
* /groovy-3-0-8-sources-jar/groovy/transform/PackageScope.java
* /groovy-3-0-8-sources-jar/groovy/lang/ReadOnlyPropertyException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/MethodKey.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ModifierNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/PrefixExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesLambdaWriter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/LineColumn.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/util/SystemUtil.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/MethodHelper.java
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* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/SingleSignatureClosureHint.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/InstanceOfVerifier.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/shell/util/Preferences.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/AstBuilder.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/StackTraceUtils.java
* /groovy-3-0-8-sources-jar/groovy/lang/MissingPropertyException.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/ParserAtnManager.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/RootLoader.java
* /groovy-3-0-8-sources-jar/groovy/util/AbstractFactory.java

* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/HashCodeHelper.java
* /groovy-3-0-8-sources-jar/groovy/transform/Generated.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/PickAnyArgumentHint.java
* /groovy-3-0-8-sources-jar/groovy/lang/Range.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/AnnotationCollectorTransform.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/customizers/SecureASTCustomizer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/PreOrderTraversal.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/GenericsType.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayGetAtMetaMethod.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/decompiled/ClassStub.java
* /groovy-3-0-8-sources-jar/groovy/beans/PropertyWriter.java
* /groovy-3-0-8-sources-jar/groovy/beans/Bindable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/tailrec/StatementReplacer.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/reflection/CachedField.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/StaticCompilationVisitor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/ErrorCollector.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/stmt/DoWhileStatement.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/AtnManager.java
* /groovy-3-0-8-sources-jar/groovy/lang/NonEmptySequence.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/treewalker/VisitorAdapter.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayGetAtMetaMethod.java
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 /groovy-3-0-8-sources-jar/groovy/lang/GrabResolver.java
* /groovy-3-0-8-sources-jar/groovy/lang/TrampolineClosure.java
* /groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/GroovydocManager.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v9/ClassFinder.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/Variable.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/stc/StaticTypesMarker.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/WriterControllerFactory.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/typehandling/FloatingPointMath.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/MetaClassRegistryImpl.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/MemoizedASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/FieldNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/MixinASTTransformation.java
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 /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/ResolveVisitor.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/AutoFinalASTTransformation.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/metaclass/MethodMetaProperty.java
* /groovy-3-0-8-sources-jar/groovy/inspect/Inspector.java
* /groovy-3-0-8-sources-jar/groovy/transform/Sortable.java
* /groovy-3-0-8-sources-jar/groovy/time/Duration.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java

* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/CompileUnit.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/antlr/AntlrParserPluginFactory.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/ProcessGroovyMethods.java
* /groovy-3-0-8-sources-jar/groovy/transform/builder/SimpleStrategy.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/control/CompilationUnit.java
*
/groovy-3-0-8-sources-jar/org/apache/groovy/parser/antlr4/GroovyLangLexer.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java
* /groovy-3-0-8-sources-jar/groovy/lang/Tuple6.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/ASTNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/callsite/StaticMetaClassSite.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/PropertyNode.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
* /groovy-3-0-8-sources-jar/groovy/namespace/QName.java
* /groovy-3-0-8-sources-jar/groovy/lang/Singleton.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/FirstParam.java
* /groovy-3-0-8-sources-jar/groovy/beans/ListenerListASTTransformation.groovy
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/runtime/m12n/SimpleExtensionModule.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/tools/gse/DependencyTracker.java
*
/groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/decompiled/FormalParameterParser.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/ClosureListExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesUnaryExpressionHelper.java
* /groovy-3-0-8-sources-jar/groovy/transform/IndexedProperty.java
* /groovy-3-0-8-sources-jar/groovy/lang/SpreadMapEvaluatingException.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/ThirdParam.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/util/FloatArrayIterator.java
* /groovy-3-0-8-sources-jar/groovy/transform/stc/MapEntryOrKeyValue.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/expr/NamedArgumentListExpression.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java
* /groovy-3-0-8-sources-jar/org/codehaus/groovy/classgen/asm/WriterController.java
*
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jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java
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global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation

Found in path(s):
* /groovy-3-0-8-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation

1.316 json4s-ext 3.2.5

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* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/JodaTimeSerializers.scala
* /json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/EnumSerializer.scala

1.317 progress 1.2

1.317.1 Available under license :

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1.318 distlib 0.2.6

1.318.1 Available under license :

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
 of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.321 glibc 2.27-3ubuntu1.4

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1.323 packaging 17.1

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1.324 joda-convert 1.2

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1.326 python 3.6.9-1~18.04ubuntu1.6

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes

1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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Thanks to the many outside volunteers who have worked under Guido's
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1.327 ip-address 1.0.17

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1.328 libalgorithm-merge-perl 0.08-3

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1.329 jetty-continuation 9.4.18.v20190429

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.331 fakeroot 1.22-2ubuntu1

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.339 shiro-lang 1.6.0

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1.340 jakarta-ws-rs-api 2.1.6

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1.342 pkg_resources 0.0.0

1.342.1 Available under license :

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Metadata-Version: 2.0
Name: pkg_resources
Version: 0.0.0
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Platform: UNKNOWN

UNKNOWN

Found in path(s):
* /pkg-resources-0-0-0-dist-info-zip/inputdir/packages_extracted/wheel/103/pkg_resources-0.0.0.dist-info/METADATA

1.343 resilience4j-ratelimiter 1.7.1

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Found in path(s):
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/internal/SemaphoreBasedRateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/event/AbstractRateLimiterEvent.java
*
/resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/RateLimiterConfig.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/RateLimiterRegistry.java
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* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/internal/AtomicRateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/RequestNotPermitted.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/internal/RateLimiterEventProcessor.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnSuccessEvent.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/RateLimiter.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/event/RateLimiterOnDrainedEvent.java
*
/resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/internal/InMemoryRateLimiterRegistry.java
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* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/utils/package-info.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/event/package-info.java
* /resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/package-info.java
*
/resilience4j-ratelimiter-1-7-1-sources-1-jar/io/github/resilience4j/ratelimiter/internal/package-info.java

1.344 dbus-python 1.2.6-1

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1.347 shiro-event 1.6.0

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1.348 jersey-media-json-jackson 2.34

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1.361 sqlite 3.22.0-1ubuntu0.4

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1.362 jetty-util 9.4.18.v20190429

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* javax.servlet:javax.servlet-api
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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-jasper-el
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org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Source Code
The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jersey

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.369 hamcrest 1.3

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1.371 jackson-module-scala 2.1.5

1.371.1 Available under license :

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```
import AssemblyKeys._
import PgpKeys._
import ReleaseKeys._
import sbtrelease._
import ReleaseStateTransformations._

// Basic facts
name := "jackson-module-scala"

organization := "com.fasterxml.jackson.module"

crossScalaVersions := Seq("2.9.1", "2.9.2", "2.10.0")

libraryDependencies <++= (version) { (v) => Seq(
  // These are "provided" so that sbt-assembly doesn't include them (we'll fix the pom later)
  "com.fasterxml.jackson.core" % "jackson-core" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-annotations" % v % "provided",
  "com.fasterxml.jackson.core" % "jackson-databind" % v % "provided"
) }

libraryDependencies ++= Seq(
  // saying this is intransitive prevents the deps from being included in the jar
  "com.fasterxml.jackson.module" %% "scalabeans" % "0.4-SNAPSHOT" intransitive(),
  // but now we need to add scalabeans deps explicitly (also as "provided")
  "com.thoughtworks.paranamer"
 % "paranamer" % "2.3" % "provided",
  "com.google.guava" % "guava" % "13.0.1" % "provided",
  // test dependencies
  "org.scalatest" %% "scalatest" % "2.0.M5" % "test" cross CrossVersion.binaryMapped {
     case "2.10" => "2.10.0"
     case x => x
  },
```

```
  "junit" % "junit" % "4.11" % "test",
  "com.fasterxml.jackson.datatype" % "jackson-datatype-joda" % "2.1.2" % "test"
)

// Another scalabeans dependency, for 2.10 only
libraryDependencies <++= (scalaBinaryVersion, scalaVersion) { (sbv,sv) => sbv match {
 // again, "provided" so that it is not included in the jar
 case "2.10" => Seq("org.scala-lang" % "scala-reflect" % sv % "provided")
 case _ => Seq()
} }

// Change the classifier of the main jar
artifact in (Compile, packageBin) ~= { (art: Artifact) =>
 art.copy(`classifier` = Some("base"))
}

// Disable publishing the main jar
publishArtifact in (Compile, packageBin) := false

// setup sbt-assembly settings
assemblySettings

// don't assembly the scala
 dependency
assembleArtifact in packageScala := false

// don't add "assembly" to the jar name
jarName in assembly <<= (name, version, scalaBinaryVersion) { (name, version, sbv) =>
 name + "_" + sbv + "-" + version + ".jar"
}

// place the assembly in the versioned path
outputPath in assembly <<= (target in assembly, jarName in assembly, scalaBinaryVersion) { (t,s,v) =>
  t / ("scala-" + v) / s
}

// don't have a classifier on the assembly
artifact in (Compile, assembly) ~= { (art: Artifact) =>
 art.copy(`classifier` = None)
}

// add the assembly as an artifact
addArtifact(artifact in (Compile, assembly), assembly)

// add the assembly signature as an artifact
packagedArtifacts <<= (packagedArtifacts, pgpSigner, skip in pgpSigner, streams) map { (artifacts,r,skipZ,s) =>
 if (!skipZ) {
  artifacts flatMap {
```

```
    // This works because the assembly has already been declared with no classifer
    case (art @ Artifact(_,"jar","jar",None,_,_,_), file) =>
      Seq(art
                        -> file,
          art.copy(extension = art.extension + ".asc") -> r.sign(file, new File(file.getAbsolutePath + ".asc"), s))
    case (art, file) => Seq(art -> file)
  }
 } else artifacts
}

// pom re-writing:
//   * remove the scalabeans dependency, as it's included
//   * remove the 'provided' annotation on others, as they're not
pomPostProcess := {
  import xml.transform._
  new RuleTransformer(new RewriteRule {
     override def transform(node: xml.Node) = node match {
        case n if ((n \ "artifactId").text.startsWith("scalabeans")) => xml.NodeSeq.Empty
        case n @ <scope>{_*}</scope> if n.text == "provided" => xml.NodeSeq.Empty
        case _ => node
     }
  })
}

// publishing
publishMavenStyle := true

publishTo <<= version { v =>
 val nexus = "https://oss.sonatype.org/"
 if (v.trim.endsWith("SNAPSHOT"))
  Some("snapshots" at nexus + "content/repositories/snapshots")
 else
  Some("releases" at nexus +
 "service/local/staging/deploy/maven2")
}

publishArtifact in Test := false

pomIncludeRepository := { _ => false }

pomExtra := {
 <url>http://wiki.fasterxml.com/JacksonModuleScala</url>
 <licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
```

```
 </licenses>
 <scm>
  <connection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</connection>
  <developerConnection>scm:git:git@github.com:FasterXML/jackson-module-scala.git</developerConnection>
  <url>http://github.com/FasterXML/jackson-module-scala</url>
 </scm>
 <developers>
  <developer>
    <id>tatu</id>
    <name>Tatu Saloranta</name>
    <email>tatu@fasterxml.com</email>
  </developer>
  <developer>
    <id>christopher</id>
    <name>Christopher Currie</name>
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  </developer>
 </developers>
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   <contributor>
    <name>Nathaniel Bauernfeind</name>
  </contributor>
  <contributor>
    <name>Anton Panasenko</name>
  </contributor>
 </contributors>
}

// credentials
credentials += Credentials(Path.userHome / ".ivy2" / ".credentials")

// release
releaseSettings

// bump bugfix on release
nextVersion := { ver => Version(ver).map(_.bumpBugfix.asSnapshot.string).getOrElse(versionFormatError) }

// use maven style tag name
tagName <<= (name, version in ThisBuild) map { (n,v) => n + "-" + v }

// don't publish on release, it doesn't work with cross version publishing
// TODO: see about defining multiple release processes, to do prepare/perform
// split processes similar to the Maven release plugin
releaseProcess := Seq(
 // TODO remove when scalabeans isn't a custom build
 // checkSnapshotDependencies,
 inquireVersions,
 runTest,
```

```
 setReleaseVersion,
 commitReleaseVersion,
 tagRelease,
 setNextVersion,
 commitNextVersion
)
```

Found in path(s):
* /jackson-module-scala-2-1-5-zip/jackson-module-scala-jackson-module-scala-2.1.5/build.sbt

1.372 jaeger-core 0.28.0

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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/http/BaggageRestrictionResponse.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/B3TextMapCodec.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageSetter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Java6CompatibleThreadLocalRandom.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Reference.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/BaggageRestrictionManagerException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/HttpBaggageRestrictionManagerProxy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/HexCodec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/RemoteBaggageRestrictionManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/DefaultBaggageRestrictionManager.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Http.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/Sender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/CompositeReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/RateLimiter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/HttpSender.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/PrefixedKeys.java
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 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/PerOperationSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/TextMapCodec.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/ThriftSender.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Configuration.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/SpanContext.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/NotFourOctetsException.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Utils.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metric.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ProbabilisticSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Tag.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/SystemClock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/utils/Clock.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ConstSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/Sampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metrics.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/HttpSamplingManager.java
*
 /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RemoteControlledSampler.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/Reporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingStatus.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Counter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Gauge.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/Span.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/LogData.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/NoopReporter.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingManager.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Extractor.java
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* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java
* /jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/MetricsFactory.java
*
/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/CompositeCodec.java

1.373 httpcore-nio 4.4.1

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1.374 jackson-dataformat-xml 2.12.7

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1.375 hk2-api 2.6.1

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Found in path(s):
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/utils/package-info.java
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* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/TimeLimiterEvent.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/internal/InMemoryTimeLimiterRegistry.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnSuccessEvent.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnErrorEvent.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/internal/TimeLimiterEventProcessor.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/AbstractTimeLimiterEvent.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/TimeLimiterOnTimeoutEvent.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/TimeLimiterRegistry.java
* /resilience4j-timelimiter-1-7-1-sources-1-jar/io/github/resilience4j/timelimiter/event/package-info.java

1.383 istack-commons 3.0.7

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* /istack-commons-runtime-3-0-7-4-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68
8, 2018-08-29T05:23:37-0700
Bnd-LastModified: 1535545434210
Bundle-Description: istack common utility code
Bundle-DocURL: http://www.oracle.com/
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-ManifestVersion: 2
Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.commons-runtime
Bundle-Vendor: Oracle Corporation
Bundle-Version: 3.0.7
Export-Package: com.sun.istack;version="3.0.7";uses:="javax.activation
,javax.xml.stream,org.xml.sax,org.xml.sax.helpers",com.sun.istack.loc
alization;version="3.0.7",com.sun.istack.logging;version="3.0.7"
Implementation-Title: istack common utility code runtime
Implementation-Vendor: Oracle Corporation

Implementation-Vendor-Id:
com.sun.istack
Implementation-Version: 3.0.7
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007

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1.384 opentracing-spring-web 0.3.2

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1.385 python 3.6.7-1~18.04

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This is the Debian GNU/Linux prepackaged version of the Python programming
language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final

2.3 version is released.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed
need not include anything that is
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1.390.1 Available under license :

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* /opentracing-tracerresolver-0-1-4-jar/META-INF/maven/io.opentracing.contrib/opentracing-tracerresolver/pom.xml

1.391 pyxdg 0.25-4ubuntu1.1

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[This is the first released version of the library GPL. It is
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any
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must
be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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1.392 libassuan 2.5.1-2

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.397 libksba 1.3.5-2

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1.400 xdg-user-dirs 0.17-1ubuntu1

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* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/MetricsType.java
* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/CounterProducer.java
* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/routepolicy/MetricsRoutePolicy.java
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* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/routepolicy/MetricsRegistryMBean.java
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* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/messagehistory/MetricsMessageHistoryMBean.java
* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/spi/InstrumentedThreadPoolFactory.java

* /camel-metrics-3-1-0-sources-jar/org/apache/camel/component/metrics/HistogramProducer.java
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1.403 hibernatejpa2.0api 1.0.1.Final

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1.404 opentracing-api 0.31.0

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1.409 javax-annotation-api 1.3.2

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
*
 /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties
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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java

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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/package.html
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
*
 /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
*

/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
*
/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
*
/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java

* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/JarOptimizer.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
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/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureWriter.java
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* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
* /asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java
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1.414 dh-python 3.20180325ubuntu2

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1.416 junit 4.12

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1.417 httpcomponents-core 4.4.1

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1.421 libalgorithm-diff-xs-perl 0.04-5

1.421.1 Available under license :

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1.422 lsof 4.89+dfsg-0.1

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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: lsof
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Comment: The following changes were made to the upstream tarball:
1.) The directory dialects/uw was removed for being non-DFSG
and not needed in Debian.
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1.425 scala-reflect 2.10.4

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1.426 tcp-wrappers 7.6.q-27

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1.427 commons-validator 1.5.1

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1.428 python-secretstorage 2.3.1-2

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1.429 iputils 3:20161105-1ubuntu3

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1.430 python-certifi 2018.1.18

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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1.431 scala 2.10.4

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1.433 wheel 0.30.0-0.2

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1.434 postgre-sql 42.6.0

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1.435 six 1.11.0-2

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1.436 jackson-jaxrs-base 2.12.7

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1.437 mpfr 4.0.1-1

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1.439 gobject-introspection 1.56.1-1

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1.440 appdirs 1.4.3

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1.441 wheel 0.30.0

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1.442 mime-pull 1.9.3

1.443 json4s-native 3.2.5

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*/
```

Found in path(s):
* /json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/Serialization.scala
* /json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/JsonParser.scala

1.444 scala-compiler 2.10.0

1.444.1 Available under license :

```
<!DOCTYPE html>
<html>
 <head>

  <title>Scala License | The Scala Programming Language</title>

  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

  <link rel="icon" type="image/png" href="/resources/favicon.ico">
  <link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">

  <!-- prettify CSS (corresponding js at footer)-->
  <link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />

  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
```

```
rel='stylesheet' type='text/css'>

  <!-- Custom stylesheet -->
  <link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

  <!-- Typekit (should stay at top of page, do not move to footer)-->
  <script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
  <script type="text/javascript">try{Typekit.load();}catch(e){}</script>

   <!-- Atom feeds -->
  <link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
  <link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />


 </head>
 <body>


<div class="darkstrip"></div>

<div class="darkbluetopbar">
 <div class="container" style="height: 100%">
  <div class="navbar-wrap">
    <div class="container" style="position: relative; height: 100%;">
      <div class="scala-logo">
        <a href="/index.html"><img src="/resources/img/scala-logo-white-sm.png" alt="white Scala logo" /></a>
      </div>
      <ul class="nav">
 <li><a href="/documentation/">Documentation</a></li>
 <li><a href="/download/">Download</a></li>
 <li><a href="/community/">Community</a></li>
 <li><a href="/contribute/">Contribute</a></li>
 <li id="source-code" >
  <a href="http://github.com/scala/scala"><img src="/resources/img/github-logo.png" alt="GitHub
 Logo" /></a>
  <div class="toptip">Source Code</div>
 </li>
 <li id="scala-lang-twitter">
  <a href="http://twitter.com/scala_lang"><img src="/resources/img/twitter-logo-white.png" alt="Twitter Logo"
/></a>
  <div class="toptip">Scala on Twitter</div>
 </li>
</ul>

    </div>
  </div>
 </div>
</div>
```

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```
</div>
<div class="sidebar">
 <div class="sidebar-inner">
  <div class="contents">Contents</div>
  <div id="toc"></div>
  <br/>
  <div class="alert-info">
   <a href="/contribute/documentation.html#updating-scala-langorg"><p><strong>Problem with this
page?</strong>
    Please help us fix it!</p></a>
  </div>
 </div>
</div>
<div style="clear:both"></div>

 </div>
</div>


 <div class="footer">
 <div class="container">
  <ul>
   <li><h5>Documentation</h5></li>
   <li><a href="/documentation/getting-started.html">Getting Started</a></li>
   <li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
    <li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
   <li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
   <li><a href="/files/archive/spec/2.12/">Language Specification</a></li>
  </ul>
  <ul>
   <li><h5>Download</h5></li>
     <li><a href="/download/">Current Version</a></li>
 <li><a href="/download/all.html">All Versions</a></li>
  </ul>
  <ul>
   <li><h5>Community</h5></li>
   <li><a href="/community/">Community</a></li>
   <li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
   <li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
   <li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
   <li><a href="https://scala.epfl.ch/">The Scala Center</a></li>
  </ul>
  <ul>
   <li><h5>Contribute</h5></li>
   <li><a href="/contribute">How to Help</a></li>
   <li><a href="/contribute/bug-reporting-guide.html">Report
```

```
 an Issue</a></li>
  </ul>
  <ul>
    <li><h5>Scala</h5></li>
    <li><a href="/blog">Blog</a></li>
    <li><a href="/news">Archive</a></li>
    <li><a href="/conduct.html">Code of Conduct</a></li>
    <li><a href="/license.html">License</a></li>
  </ul>
  </div>
  <div class="container">
    <div class="copyright">
      <a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"><img src="/resources/img/epfl-logo.png"
alt="EPFL logo" /></a>
      <p style="float: left;"><br/>Copyright &copy; 2002-<span class="current-year"></span> École Polytechnique
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      (EPFL)<br/> Lausanne, Switzerland</p>
    </div>
    <div class="scala-logo-footer">
      <img src="/resources/img/scala-logo-red-footer.png" alt="Scala footer logo" />
    </div>
  </div> <!-- container -->
  </div> <!-- footer -->

  <!-- prettify  js -->
  <script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
   <script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

  <!-- jquery js -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlbdwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>

  <!-- modernizr js -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>

  <!-- retina js -->
  <script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

  <!-- backstretch js -->
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl3OFjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>

  <!-- Bootstrap JS -->
  <script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js"
```

```
 integrity="sha384-qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpIiXGihDsGpfMCHJD0IKH0gkPQToGD5ek3"
crossorigin="anonymous"></script>


  <!-- table of contents JS -->
  <script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
  <script type="text/javascript">
    $(document).ready(function(){
      $('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false});
      function moveScroller() {
        if ($(".sidebar").length == 0)
          return;
        var a = function() {
          var topOfScroll = $(window).scrollTop();
          var topOfSidebar = $(".sidebar").offset().top;
          var sidebarInner = $(".sidebar-inner");
          var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
          var topOfFooter = $(".footer").offset().top - 10;
          var footerHeight = $(".footer").outerHeight();
          if (topOfScroll > topOfSidebar) {
            if (bottomOfSidebarInner
 > topOfFooter) {
              sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
            } else {
              sidebarInner.css({position:"fixed",top:"10px",bottom:""});
            }
          } else {
            sidebarInner.css({position:"relative",top:""});
          }
        };
        $(window).scroll(a);a()
      }
      moveScroller();
    })
  </script>


  <!-- Custom javascript -->
  <script src="/resources/js/main.js" type="text/javascript"></script>
 </body>
</html>
```

1.445 activation-api 1.2.1

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1.446 zip 3.0-11build1

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1.447 libpsl 0.19.1-5build1

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lib/gssapi/mechglue/g_accept_sec_context.c
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lib/gssapi/mechglue/g_canon_name.c
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lib/gssapi/mechglue/g_glue.c
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lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
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lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the
following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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*/

package org.apache.commons.httpclient;

import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
* Closes an underlying stream as soon as the end of the stream is reached, and
* notifies a client when it has done so.
*
* @author Ortwin Glueck
* @author Eric Johnson
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @since 2.0
*/
class AutoCloseInputStream extends FilterInputStream {

   /**
    * True if this stream is open.  Assume that the underlying stream
    * is open until we get an EOF indication.
    */
   private boolean streamOpen = true;

   /** True if the
  stream closed itself. */
   private boolean selfClosed = false;

   /**
    * The watcher is notified when the contents of the stream have
    * been  exhausted
    */
   private ResponseConsumedWatcher watcher = null;
```

```
 /**
  * Create a new auto closing stream for the provided connection
  *
  * @param in the input stream to read from
  * @param watcher   To be notified when the contents of the stream have been
  *  consumed.
  */
 public AutoCloseInputStream(
         final InputStream in, final ResponseConsumedWatcher watcher) {
     super(in);
     this.watcher = watcher;
 }

 /**
  * Reads the next byte of data from the input stream.
  *
  * @throws IOException when there is an error reading
  * @return the character read, or -1 for EOF
  */
 public int read() throws IOException {
     int l = -1;

     if (isReadAllowed()) {
         // underlying stream not closed, go ahead
and read.
         l = super.read();
         checkClose(l);
     }

     return l;
 }

 /**
  * Reads up to <code>len</code> bytes of data from the stream.
  *
  * @param b a <code>byte</code> array to read data into
  * @param off an offset within the array to store data
  * @param len the maximum number of bytes to read
  * @return the number of bytes read or -1 for EOF
  * @throws IOException if there are errors reading
  */
 public int read(byte[] b, int off, int len) throws IOException {
     int l = -1;

     if (isReadAllowed()) {
         l = super.read(b,  off,  len);
         checkClose(l);
```

```
        }

        return l;
    }

    /**
     * Reads some number of bytes from the input stream and stores them into the
     * buffer array b.
     *
     * @param b a <code>byte</code> array to read data into
     * @return the number of bytes read or -1 for EOF
     * @throws IOException if
    there are errors reading
     */
    public int read(byte[] b) throws IOException {
        int l = -1;

        if (isReadAllowed()) {
            l = super.read(b);
            checkClose(l);
        }
        return l;
    }

    /**
     * Close the stream, and also close the underlying stream if it is not
     * already closed.
     * @throws IOException If an IO problem occurs.
     */
    public void close() throws IOException {
        if (!selfClosed) {
            selfClosed = true;
            notifyWatcher();
        }
    }

    /**
     * Close the underlying stream should the end of the stream arrive.
     *
     * @param readResult    The result of the read operation to check.
     * @throws IOException If an IO problem occurs.
     */
    private void checkClose(int readResult) throws IOException {
        if (readResult == -1) {
            notifyWatcher();
        }
    }
```

```
  /**
   * See whether a read of the underlying stream
 should be allowed, and if
   * not, check to see whether our stream has already been closed!
   *
   * @return <code>true</code> if it is still OK to read from the stream.
   * @throws IOException If an IO problem occurs.
   */
  private boolean isReadAllowed() throws IOException {
      if (!streamOpen && selfClosed) {
          throw new IOException("Attempted read on closed stream.");
      }
      return streamOpen;
  }

  /**
   * Notify the watcher that the contents have been consumed.
   * @throws IOException If an IO problem occurs.
   */
  private void notifyWatcher() throws IOException {
      if (streamOpen) {
          super.close();
          streamOpen = false;

          if (watcher != null) {
              watcher.responseConsumed();
          }
      }
  }
}
```

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maintaining it in 1993. This list is known to be incomplete--if
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
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Brown, Jerry
Burr, Michael E
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Campbell, Aaron
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ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Dai, Wei
Dill, David
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Gerraty, Simon J.
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Kadow, Kevin
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Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.

Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
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Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian,
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Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
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Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
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SATO, Yuichi
Snchez, Wilfredo
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Schuring, Arno
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Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho

Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
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*/

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*
 /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSourceFactory.java

* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolingConnection.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/jocl/JOCLContentHandler.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SequencedHashMap.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DriverManagerConnectionFactory.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSourceFactory.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DataSourceConnectionFactory.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/ConnectionFactory.java
*
/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingCallableStatement.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyDataSource.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PooledConnectionAndInfo.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/PooledConnectionImpl.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/DriverAdapterCPDS.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/PoolablePreparedStatementStub.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/BasicDataSourceFactory.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolablePreparedStatement.java
*
/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolingDataSource.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/UserPassKey.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DbcpException.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedConfig.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingConnection.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/SQLNestedException.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedTrace.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolableConnection.java

* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/PoolingDriver.java
*
/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/ConnectionImpl.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PerUserPoolDataSource.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/jocl/ConstructorUtil.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/AbandonedObjectPool.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingResultSet.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/PoolKey.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/LRUMap.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DriverConnectionFactory.java
*
/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/BasicDataSource.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingStatement.java
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java
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*

/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/cpdsadapter/package.html
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/jocl/package.html
* /com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/package.html

1.456 shiro-config-ogdl 1.6.0

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* /jcommander-1-30-sources-1-jar/com/beust/jcommander/ParametersDelegate.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/MissingCommandException.java
*
/jcommander-1-30-sources-1-jar/com/beust/jcommander/ResourceBundle.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/BooleanConverter.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/FloatConverter.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/JCommander.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/NoConverter.java
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 /jcommander-1-30-sources-1-jar/com/beust/jcommander/IStringConverterFactory.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/ParameterException.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/IDefaultProvider.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/StringConverter.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/DoubleConverter.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/Parameters.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/internal/Maps.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/internal/Lists.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/internal/Sets.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/converters/BigDecimalConverter.java
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* /jcommander-1-30-sources-1-jar/com/beust/jcommander/IParameterValidator2.java
*
 /jcommander-1-30-sources-1-jar/com/beust/jcommander/validators/NoValidator.java
* /jcommander-1-30-sources-1-jar/com/beust/jcommander/validators/NoValueValidator.java

1.460 pycrypto 2.6.1

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1.461 janino 2.6.1

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1.464 jax-ws-api 2.3.0

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1.466 thrift 0.9.2

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lib/erl/src/Makefile.am

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compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrifty.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs

lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEventsEndpointResponse.java
* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/timelimiter/configuration/TimeLimiterConfigCustomizer.java
*

/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/timelimiter/monitoring/endpoint/TimeLimiterEventDTO.java
* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/timelimiter/configuration/TimeLimiterConfigurationProperties.java
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* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/CustomizerWithName.java
* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/CompositeCustomizer.java
* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/CommonProperties.java
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jar/io/github/resilience4j/common/circuitbreaker/monitoring/endpoint/UpdateState.java
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* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventDTOFactory.java
*

/resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/retry/monitoring/endpoint/RetryEventDTOBuilder.java
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* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/bulkhead/configuration/ThreadPoolBulkheadConfigurationProperties.java
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* /resilience4j-framework-common-1-7-1-sources-jar/io/github/resilience4j/common/ratelimiter/monitoring/endpoint/RateLimiterEndpointResponse.java
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1.468 error_prone_annotations 2.1.3

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1.469 hk2-locator 2.6.1

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1.470 scalap 2.10.0

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<html>
 <head>

  <title>Scala License | The Scala Programming Language</title>

  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

  <link rel="icon" type="image/png" href="/resources/favicon.ico">
  <link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">

  <!-- prettify CSS (corresponding js at footer)-->
  <link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />

  <link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>

  <!-- Custom stylesheet -->
  <link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

  <!-- Typekit (should stay at top of page, do not move to footer)-->
  <script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
  <script type="text/javascript">try{Typekit.load();}catch(e){}</script>

   <!-- Atom feeds -->
  <link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
  <link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />


 </head>
 <body>
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    <ul class="nav">
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 Download
 Community
 Contribute
 <li id="source-code" >
  <img src="/resources/img/github-logo.png" alt="GitHub
 Logo" />
  Source Code

 <li id="scala-lang-twitter">
  <img src="/resources/img/twitter-logo-white.png" alt="Twitter Logo"
/>
  Scala on Twitter

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</div>


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  </div>
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    <div class="copyright">
      <a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"><img src="/resources/img/epfl-logo.png"
alt="EPFL logo" /></a>
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Fédérale de Lausanne
      (EPFL)<br/> Lausanne, Switzerland</p>
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  </div> <!-- footer -->

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  <script type="text/javascript">
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     $('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false});
     function moveScroller() {
       if ($(".sidebar").length == 0)
         return;
       var a = function() {
         var topOfScroll = $(window).scrollTop();
         var topOfSidebar = $(".sidebar").offset().top;
         var sidebarInner = $(".sidebar-inner");
         var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
         var topOfFooter = $(".footer").offset().top - 10;
```

```
          var footerHeight = $(".footer").outerHeight();
          if (topOfScroll > topOfSidebar) {
            if (bottomOfSidebarInner
 > topOfFooter) {
              sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
            } else {
              sidebarInner.css({position:"fixed",top:"10px",bottom:""});
            }
          } else {
            sidebarInner.css({position:"relative",top:""});
          }
        };
        $(window).scroll(a);a()
      }
      moveScroller();
    })
  </script>


  <!-- Custom javascript -->
  <script src="/resources/js/main.js" type="text/javascript"></script>
 </body>
</html>
```

1.471 python-setuptools 39.0.1-2

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* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonInt64Codec.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonSymbol.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonTokenType.java
* /bson-4-11-1-sources-1-jar/org/bson/internal/UuidHelper.java
* /bson-4-11-1-sources-1-jar/org/bson/BSONCallback.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/ParameterizedCollectionCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/MapCodecProvider.java
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/bson-4-11-1-sources-1-jar/org/bson/RawBsonValueHelper.java
* /bson-4-11-1-sources-1-jar/org/bson/RawBsonDocument.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/jsr310/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/types/StringRangeSet.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/Conventions.java
* /bson-4-11-1-sources-1-jar/org/bson/LazyBSONCallback.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonRegularExpression.java
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* /bson-4-11-1-sources-1-jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonJavaScript.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonElement.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/MapCodecV2.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/UuidCodecProvider.java
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* /bson-4-11-1-sources-1-jar/org/bson/AbstractBsonReader.java
* /bson-4-11-1-sources-1-jar/org/bson/io/ByteBufferBsonInput.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/DiscriminatorLookup.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/Parameterizable.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonDoubleCodec.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/CreatorExecutable.java
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* /bson-4-11-1-sources-1-jar/org/bson/StringUtils.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/ByteCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/ByteArrayCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/ClassModel.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonContextType.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java

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 /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonStringCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonJavaScriptWithScope.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonStringBuffer.java
* /bson-4-11-1-sources-1-jar/org/bson/LazyBSONDecoder.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonBinarySubType.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/CollectionCodec.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/MaxKeyCodec.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
* /bson-4-11-1-sources-1-jar/org/bson/BSONEncoder.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/annotations/BsonId.java
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* /bson-4-11-1-sources-1-jar/org/bson/BsonDocumentWriter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonMaxKey.java
* /bson-4-11-1-sources-1-jar/org/bson/BasicBSONCallback.java
* /bson-4-11-1-sources-1-jar/org/bson/BSONDecoder.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyModelSerializationInlineImpl.java
* /bson-4-11-1-sources-1-jar/org/bson/conversions/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/UuidCodecHelper.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonStreamBuffer.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /bson-4-11-1-sources-1-jar/org/bson/diagnostics/Logger.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonBinaryWriterSettings.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/ParameterizedMapCodec.java
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 /bson-4-11-1-sources-1-jar/org/bson/json/JsonInt32Converter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonDecimal128Codec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/IterableCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonToken.java
* /bson-4-11-1-sources-1-jar/org/bson/io/BsonOutput.java
* /bson-4-11-1-sources-1-jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/assertions/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/io/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/json/ShellMinKeyConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonStringConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/JsonObjectCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/types/MaxKey.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
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/bson-4-11-1-sources-1-jar/org/bson/BsonDocumentWrapper.java
* /bson-4-11-1-sources-1-jar/org/bson/json/Converter.java
* /bson-4-11-1-sources-1-jar/org/bson/diagnostics/Loggers.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonInvalidOperationException.java
* /bson-4-11-1-sources-1-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/types/CodeWScope.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonWriterSettings.java
* /bson-4-11-1-sources-1-jar/org/bson/diagnostics/NoOpLogger.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BinaryCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonObjectIdCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/Transformer.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonTimestampCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/LazyBSONList.java
* /bson-4-11-1-sources-1-jar/org/bson/ByteBufNIO.java
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/bson-4-11-1-sources-1-jar/org/bson/json/ExtendedJsonBinaryConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/AbstractCollectionCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/Either.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonDocumentReader.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonSymbolCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/diagnostics/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/Document.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/EncoderContext.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/UuidCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
* /bson-4-11-1-sources-1-jar/org/bson/types/Code.java
* /bson-4-11-1-sources-1-jar/org/bson/conversions/Bson.java
* /bson-4-11-1-sources-1-jar/org/bson/BasicBSONObject.java
*
/bson-4-11-1-sources-1-jar/org/bson/codecs/BsonDBPointerCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/LazyBSONObject.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /bson-4-11-1-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/configuration/package-info.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyAccessor.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonReaderMark.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyModel.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /bson-4-11-1-sources-1-jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /bson-4-11-1-sources-1-jar/org/bson/ByteBuf.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/MapCodec.java
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/bson-4-11-1-sources-1-jar/org/bson/BsonDocument.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/DecoderContext.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonMinKey.java
* /bson-4-11-1-sources-1-jar/org/bson/internal/BsonUtil.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonInt64.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/DateCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonJavaScriptConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/annotations/BsonExtraElements.java
* /bson-4-11-1-sources-1-jar/org/bson/json/JsonParseException.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/MinKeyCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/CodeCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/CollectibleCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /bson-4-11-1-sources-1-jar/org/bson/BsonUndefined.java
* /bson-4-11-1-sources-1-jar/org/bson/io/BsonInput.java
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/bson-4-11-1-sources-1-jar/org/bson/json/DateTimeFormatter.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonDocumentCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/EnumCodecProvider.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonTypeCodecMap.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/jsr310/LocalTimeCodec.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/IdGenerator.java
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* /bson-4-11-1-sources-1-jar/org/bson/codecs/BsonCodecProvider.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/IdGenerators.java
* /bson-4-11-1-sources-1-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
*

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This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on

the Library and of the other library facilities is otherwise
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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     uses: vmactions/netbsd-vm@v1
     with:
       usesh: true
       copyback: false
       prepare: |
         /usr/sbin/pkg_add cmake zstd py313-pip
         /usr/pkg/bin/pip-3.13 install nihtest
         # https://docs.github.com/en/actions/writing-workflows/choosing-what-your-workflow-does/workflow-
commands-for-github-actions#adding-a-system-path
         echo "/usr/pkg/bin" >> "$GITHUB_PATH"
       run: |
         cmake -E make_directory ${{runner.workspace}}/build
         cmake ${{ matrix.cmake_extra }} ${{github.workspace}}
         cmake --build . --config Release
         ctest --output-on-failure -V -C Release
```

1.475 antlr 2.7.6

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.477 cpp 4:7.4.0-1ubuntu2.3

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1.478 python-keyring 10.6.0-1

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1.479 java-jwt 3.8.3

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1.480 checker-qual 3.31.0

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1.481 httpclient 3.10.0

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1.482 netbase 5.4

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1.484 shiro-config-core 1.6.0

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1.485 snake-yaml 1.21

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1.486 cassandra-driver-core 2.1.0

1.487 commons-dbcp 1.2.2

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1.488 mpdecimal 2.4.2-1ubuntu1

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* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/driver.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/driver.py

No license file was found, but licenses were detected in source scan.

executable.

Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/spawn.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/spawn.py
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Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.6/Lib/lib2to3/fixes/fix_standarderror.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_xrange.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_xrange.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_types.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_buffer.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_filter.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.7/Lib/lib2to3/fixes/fix_standarderror.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_dict.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_map.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.8/Lib/lib2to3/fixes/fix_standarderror.py
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A grammar to describe tree matching patterns.
Not shown here:
- 'TOKEN' stands for any token (leaf node)
- 'any' stands for any node (leaf or interior)

```
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]
            | NAME [Details] [Repeater]
            | '(' Alternatives ')' [Repeater]
            | '[' Alternatives ']'
  )

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives ')')

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER] '}'

Details: '<' Alternatives '>'
```

Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/PatternGrammar.txt
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/PatternGrammar.txt
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/PatternGrammar.txt
No license file was found, but licenses were detected in source scan.

```
# All rights reserved.
```

Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/tokenize.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/tokenize.py
No license file was found, but licenses were detected in source scan.

```
file.write('License: %s\n' % self.get_license())
```

Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/dist.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/dist.py
No license file was found, but licenses were detected in source scan.

```
# version.
```

Found in path(s):

* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_wininst.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_msi.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/cygwinccompiler.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_wininst.py
No license file was found, but licenses were detected in source scan.

('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'License: ' + self.distribution.get_license(),

Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_rpm.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_rpm.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/__init__.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/parse.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/literals.py

* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/parse.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/conv.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/literals.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/grammar.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/pgen.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/__init__.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pgen2/grammar.py
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Found in path(s):
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.8/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixer_base.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_long.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.6/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.6/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_ne.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixer_base.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_ne.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-
3.7.5/3.8/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_long.py
*

/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_exec.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/patcomp.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_execfile.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/refactor.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/tests/pytree_idempotency.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_apply.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/tests/test_pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pygram.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_print.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_apply.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_repr.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pygram.py
*
/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pytree.py
* /python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_exec.py

1.498 aspect-j 1.9.8

1.498.1 Available under license :

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* which accompanies this distribution and is available at
* https://www.eclipse.org/org/documents/epl-2.0/EPL-2.0.txt
*
* Contributors:
* PARC initial implementation
* **/

Found in path(s):
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelCflowAccessVar.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BasicTokenSource.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThrowsPattern.java

* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/Iterators.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/DeclareSoft.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ExposedState.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/ASTNode.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/CflowPointcut.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/SignaturePattern.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Or.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/ExceptionRange.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Expr.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PatternNode.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/CrosscuttingMembers.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelFieldRef.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/DeclarePrecedence.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/TypePatternQuestions.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelVar.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/OrTypePattern.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/Instanceof.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/StaticJoinPointFactory.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetPointcut.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/CallExpr.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/WithinPointcut.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelField.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BasicToken.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ResolvedPointcutDefinition.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/Bindings.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AjAttribute.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/IntMap.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ShadowMunger.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelCflowStackFieldAdder.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/And.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/NameMangler.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/IScope.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/Range.java
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 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/NewMethodTypeMunger.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ITokenSource.java

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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/Position.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ast/FieldGetCall.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Pointcut.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Around.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/Aspect.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelPerClauseAspectAdder.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/AfterReturning.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/Constants.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodHandle.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/ReturnaddressType.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/FieldGen.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantMethodType.java
*

/aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionSelect.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Unknown.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/Type.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Modifiers.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/generic/InstructionList.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/Utility.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/EnumAnnotationValue.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ArrayAnnotationValue.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/SimpleAnnotationValue.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotationValue.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ClassAnnotationValue.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IModelFilter.java
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* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Handler.java
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 /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/TypePath.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ClassVisitor.java
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* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Type.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/signature/SignatureWriter.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/CurrentFrame.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Attribute.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/MethodTooLargeException.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ModuleWriter.java
* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/ClassReader.java
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* /aspectjweaver-1-9-8-sources-jar/aj/org/objectweb/asm/Symbol.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/Constants.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/Jdk14Trace.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/AbstractTrace.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/CompressingDataOutputStream.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelConstantPoolReader.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/annotation/DeclareAnnotation.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/definition/Definition.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/ConcreteAspectCodeGen.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelAccessForInlineMunger.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PerThisOrTargetPointcutVisitor.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Options.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Agent.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/Aj.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/loadtime/DefaultMessageHandler.java

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*    Alex Vasseur    wired up for @AJ proceeding
*    Andy Clement 23-06-06 added extras for @AJ
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/WildcardedUnresolvedType.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/WeakClassLoaderReference.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/bcel/BcelWeavingSupport.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationFieldTypePattern.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/ArrayReferenceType.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ExactAnnotationFieldTypePattern.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/ConstantPackage.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingPattern.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/ThisOrTargetAnnotationPointcut.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/StandardPointcutExpressionImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/AnnotatedElement.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/PointcutExpressionImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AnnotationPointcut.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/WithinCodeAnnotationPointcut.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/Signature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/CountingMessageHandler.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/MethodSignatureImpl.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/util/FuzzyBoolean.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/NoAspectBoundException.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/util/FileUtil.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/JoinPointImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/SignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/MethodSignature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/MessageUtil.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/MemberSignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/SourceLocation.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/JoinPoint.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/FieldSignature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/ReflectionFactory.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/ConstructorSignature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/MessageHandler.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/FieldSignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/MemberSignature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/Conversions.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/PerObjectMap.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/util/PartialOrder.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/CatchClauseSignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/ICommand.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/AdviceSignature.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/CodeSignature.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/IMessageHolder.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/Message.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/MessageWriter.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/bridge/ISourceLocation.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/CFlowPlusState.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/SourceLocationImpl.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/internal/CFlowStack.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/StringMaker.java

* /aspectjweaver-1-9-8-sources-jar/org/aspectj/lang/reflect/SourceLocation.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/CFlow.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/runtime/reflect/CodeSignatureImpl.java
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*   Lyor Goldstein (vmware) add support for weaved class being re-defined
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/WeavedClassCache.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/AbstractFileCacheBacking.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/CachedClassReference.java
*
 /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/DefaultFileCacheBacking.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/CacheBacking.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/cache/AbstractCacheBacking.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IElementHandleProvider.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/asm/IRelationshipMap.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/patterns/AndSignaturePattern.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/TemporaryTypeMunger.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/IUnwovenClassFile.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/weaver/tools/JoinPointMatch.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java
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* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/EnclosingMethod.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/AnnotationDefault.java
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jar/org/aspectj/weaver/bcel/UnwovenClassFileWithThirdPartyManagedBytecode.java
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 /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/SimpleElementValue.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeParamAnnos.java
* /aspectjweaver-1-9-8-sources-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisAnnos.java
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1.499 gson 2.8.6

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* /gson-2-8-6-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
* /gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
*
 /gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
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* /gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializer.java
* /gson-2-8-6-sources-1-jar/com/google/gson/internal/$Gson$Preconditions.java
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 /gson-2-8-6-sources-1-jar/com/google/gson/internal/Excluder.java
* /gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-8-6-sources-1-jar/com/google/gson/JsonArray.java
* /gson-2-8-6-sources-1-jar/com/google/gson/annotations/Since.java
* /gson-2-8-6-sources-1-jar/com/google/gson/internal/Primitives.java
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1.500 jzlib 1.1.3

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1.501 pciutils 1:3.5.2-1ubuntu1.1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for

writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably

considered independent and separate works in
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

a) Accompany the
work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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performing this distribution.

d) If distribution of the work is made by offering access to copy
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Some devices are designed to deny users access to install or run modified versions of the software
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manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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terms and conditions for copying, distribution and
modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

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infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official

standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if
any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate
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You may convey a work based on the Program, or the modifications

to
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The work must carry prominent notices stating that it is released
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ways:

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a
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used for software interchange.

@item
Convey the object code in, or embodied in, a physical product
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6b.

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

```
use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );

open my $fh, '<', 'file_name' or die "Can't open file: $!\n";
$fs->lock( $fh, F_SETLK )
   or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
   or print "Unlocking failed: " . $fs->error . "\n";
```

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often

implemented in terms of the L<flock(2)> system function which has
some shortcomings (especially concerning locks on remotely
 mounted
file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously,
this restricts the use of the module to systems that have a L<fcntl(2)>
system call). Before a file (or parts of a file) can be locked, an
object simulating a flock structure, containing information in a
binary format to be passed to L<fcntl(2)> for locking requests, must
be created and its properties set. Afterwards, by calling the L<lock()>
method a lock can be set and removed or it can be determined if and which
process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library,
build during installation, to call the L<fcntl(2)> system function directly.
If this is unsuitable there are two alternatives, File::FcntlLock::Pure and
File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and
use Perl code to assemble and disassemble the structure. For this at some
time the (system-dependent)
 binary layout of the flock structure must
have been determined via a program written in C. The difference between
File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former
this happened when the package is installed while for the latter it is
done each time the package is loaded (e.g., with C<use>). Thus, for
File::FcntlLock::Inline to work a C compiler must be available. There
are some minor differences in the functionality and the behaviour on
passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:

 $fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the
flock structure to be passed to L<fcntl(2)> (see below). Per default
on object creation the L<l_type> property is set to C<F_RDLCK>,
L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0,
i.e., the settings for a read lock on
 the whole file.

These defaults can be overruled by passing the L<new()> method a set

of key-value pairs to initialize the objects properties, e.g. use

```
 $fs = new File::FcntlLock( l_type   => F_WRLCK,
                            l_whence => SEEK_SET,
                            l_start  => 0,
                            l_len    => 100 );
```

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining
 if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to
be locked. A value of 0 is interpreted to mean a lock, starting at

C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
to 0 locks the complete file.

According to SUSv3 support for negative values for L<l_len> are
permitted, resulting in a lock ranging from C<l_start+l_len> up to
and including C<l_start-1>. But not all systems support negative
values
 for L<l_len> and will return an error when you try to obtain
such a lock, so please read the L<fcntl(2)> man page of the system
carefully for details.

=item C<l_pid()>

If a call of the L<lock()> method with C<F_GETLK> indicates that
another process is holding the lock (in which case the L<l_type>
property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the
L<l_pid()> method returns the PID of the process holding the lock.
This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one
can then try to obtain a lock, release it or determine the current
holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>

This method expects two arguments. The first one is a file handle
(or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B<but
neither> File::FcntlLock::Pure B<nor> File::FcntlLock::Inline), also
accepts a "raw" integer file descriptor. The second argument is a
flag indicating
 the action to be taken. So call it as in

 $fs->lock($fh, F_SETLK);

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when

L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it
(if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain
a lock but a lock is already being held by some other process the
method returns C<undef> and C<errno> is set to C<EACCESS> or
C<EAGAIN> (please see the the man page for L<fcntl(2)> for more
details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the
lock can't be obtained immediately it puts the calling process to
sleep, i.e., it blocks, until the lock is obtained at some later
time. If a signal is received while waiting for the lock the
method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process
currently
 is holding the lock. If there's no other lock the L<l_type>
property will be set to C<F_UNLCK>. Otherwise the flock structure object
is set to the values that would prevent us from obtaining a lock. There
may be several processes that keep us from getting a lock, including
some that themselves are blocked waiting to obtain a lock. C<F_GETLK>
will only make details of one of these processes visible, and one has
no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true",
i.e., a value that is true in boolean but 0 in numeric context. If
the method fails (as indicated by an C<undef> return value) you can
either immediately evaluate the error number (using $!, $ERRNO or
$OS_ERROR) or check for it via the methods discussed below at some
later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other,
due to the first calling
 the system function L<fcntl(2)> directly
while the latter two invoke the Perl C<fcntl> function. Perl's
C<fcntl> function already returns a Perl error on some types of
invalid arguments. In contrast File::FcntlLock passes them on to the

L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>. If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>. Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system
call. Note also that under certain circumstances the File::FcntlLock::Pure
and File::FcntlLock::Inline modules may not have been installed. This
happens on 32-bit systems that use 64-bit integers in their flock
structure but where the installed Perl version doesn't support the 'q'
format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks
 to Mark Jason Dominus and Benjamin Goldberg for helpful discussions,
code examples and encouragement. Glenn Herteg pointed out several problems
and also helped improve the documentation. Julian Moreno Patino helped
correcting the documentation and pointed out problems arising on GNU Hurd
which seems to have only very rudimentary support for locking with
L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with
implementing alternatives to an XS-only approach which hopefully will
make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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File::FcntlLock
==========

File::FcntlLock is a module to do file locking in an object oriented
fashion using the fcntl(2) system call. This allows locks on parts of
a file as well as on the whole file and overcomes some known problems
with flock(2), on which Perls flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done
with using this package. Per default a method is used where a shared
library build creation of the package is called from the Perl code to
invoke the fcntl(2) system function. This method can also be used by
employing the File::FcntlLock::XS module (which basically an alias for
File::FcntlLock). Two further methods instead use calls of the Perl
fcntl() function. In both cases at some time a C program must be run
to determine the binary layout of the C flock struct used by fcntl()
for locking. For the one package, File::FcntlLock::Pure, this
 is done
while making the package. For the other, File::FcntlLock::Inline, this
happens each time the package is loaded (e.g. wih the 'use' function).
Of course, for this to work a C compiler must be installed on the
system!

Unfortunately, there seem to be a few 32-bit systems where the off_t
type, used in the flock struct, is a 64-bit integer but which use a
Perl version that hasn't 64-bit support enabled. On these systems the
'q' format for Perl's pack() and unpack() function isn't available and
thus a "pure Perl" approach is thus not possible. On such systems the
File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get
installed.

PORTABILITY

To use the module the system must support the fcntl() system call
which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

```
perl Makefile.PL
make
make test
make install
```

DEPENDENCIES

The module requires the following other modules:

```
POSIX, Errno, Carp,
Exporter, DynaLoader
```

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module
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Upstream-Contact: This version released by Tye McQueen (http://perlmonks.org/?node=tye).
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1.506 jakarta-validation-api 2.0.2

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~
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<![CDATA[
Comments to: bean-validation-dev@eclipse.org.
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Found in path(s):
* /jakarta-validation-api-2-0-2-sources-3-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

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*/

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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java
*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java
* /jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java
*
/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Configuration.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Size.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java

* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Future.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMax.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Positive.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotEmpty.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ConfigurationState.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Payload.java
*
/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Past.java

1.507 json-c 0.12.1-1.3ubuntu0.3

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1.508 javax-el 2.2.4

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* holder.
*/

```
/*
 Author: Jacob Hookom
 Email: jacob at hookom.net
      Author: Kin-man Chung
*/

/* == Option Declaration == */
options
{
 STATIC=false;
 NODE_PREFIX="Ast";
 VISITOR_EXCEPTION="javax.el.ELException";
 VISITOR=false;
 MULTI=true;
 NODE_DEFAULT_VOID=true;
 JAVA_UNICODE_ESCAPE=false;
  UNICODE_INPUT=true;
 BUILD_NODE_FILES=true;
}

/* == Parser Declaration == */
PARSER_BEGIN( ELParser )
package com.sun.el.parser;
import java.io.StringReader;
import javax.el.ELException;
public class ELParser
{
  public static Node parse(String ref) throws ELException
  {
     try {
      return (new ELParser(new StringReader(ref))).CompositeExpression();
     } catch (ParseException pe) {
        throw new ELException(pe.getMessage());
     }
  }
}
PARSER_END( ELParser )

/*
* CompositeExpression
* Allow most flexible parsing, restrict by examining
* type of returned node
*/
AstCompositeExpression CompositeExpression() #CompositeExpression
 : {}
{
 (DeferredExpression() | DynamicExpression() | LiteralExpression())* <EOF> { return jjtThis; }
}
```

```
/*
* LiteralExpression
* Non-EL Expression blocks
*/
void LiteralExpression() #LiteralExpression : { Token t = null; }
{
 t=<LITERAL_EXPRESSION> { jjtThis.setImage(t.image); }
}

/*
* DeferredExpression
* #{..} Expressions
*/
void DeferredExpression() #DeferredExpression : {}
{
 <START_DEFERRED_EXPRESSION> Expression() <END_EXPRESSION>
}

/*
* DynamicExpression
* ${..} Expressions
*/
void DynamicExpression() #DynamicExpression : {}
{
 <START_DYNAMIC_EXPRESSION> Expression() <END_EXPRESSION>
}

/*
* Expression
* EL Expression Language Root, goes to Choice
*/
void Expression() : {}
{
 Choice()
}

/*
* Choice
* For Choice markup a ? b : c, then Or
*/
void Choice() : {}
{
 Or() (<QUESTIONMARK> Choice() <COLON> Choice() #Choice(3))?
}

/*
* Or
```

```
* For 'or' '||', then And
*/
void Or() : {}
{
 And() ((<OR0>|<OR1>) And() #Or(2))*
}

/*
* And
* For 'and'
 '&&', then Equality
*/
void And() : {}
{
 Equality() ((<AND0>|<AND1>) Equality() #And(2))*
}

/*
* Equality
* For '==' 'eq' '!=' 'ne', then Compare
*/
void Equality() : {}
{
 Compare()
 (
  ((<EQ0>|<EQ1>) Compare() #Equal(2))
 |
  ((<NE0>|<NE1>) Compare() #NotEqual(2))
 )*
}

/*
* Compare
* For a bunch of them, then Math
*/
void Compare() : {}
{
 Math()
 (
  ((<LT0>|<LT1>) Math() #LessThan(2))
 |
  ((<GT0>|<GT1>) Math() #GreaterThan(2))
 |
  ((<LE0>|<LE1>) Math() #LessThanEqual(2))
 |
  ((<GE0>|<GE1>) Math() #GreaterThanEqual(2))
 )*
}
```

```
/*
* Math
* For '+' '-', then Multiplication
*/
void Math() : {}
{
 Multiplication()
 (
  (<PLUS> Multiplication() #Plus(2))
 |
  (<MINUS> Multiplication() #Minus(2))
 )*
}

/*
* Multiplication
* For a bunch of them, then Unary
*/
void Multiplication() : {}
{
 Unary()
 (
  (<MULT> Unary() #Mult(2))
 |
  ((<DIV0>|<DIV1>) Unary() #Div(2))
 |
  ((<MOD0>|<MOD1>) Unary() #Mod(2))
 )*
}

/*
* Unary
* For '-' '!' 'not' 'empty', then Value
*/
void
 Unary() : {}
{
  <MINUS> Unary() #Negative
 |
  (<NOT0>|<NOT1>) Unary() #Not
 |
  <EMPTY> Unary() #Empty
 |
  Value()
}

/*
```

```
* Value
* Defines Prefix plus zero or more Suffixes
*/
void Value() : {}
{
 (ValuePrefix() (ValueSuffix())*) #Value(>1)
}

/*
* ValuePrefix
* For Literals, Variables, and Functions
*/
void ValuePrefix() : {}
{
 Literal()
 | NonLiteral()
}

/*
* ValueSuffix
* Either dot or bracket notation
*/
void ValueSuffix() : {}
{
 DotSuffix() | BracketSuffix()
}

/*
* DotSuffix
* Dot Property and Dot Method
*/
void DotSuffix() #DotSuffix : { Token t = null; }
{
      <DOT> t=<IDENTIFIER> { jjtThis.setImage(t.image); }
      ( (<LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN> )
         #MethodArguments
      )?
}

/*
* BracketSuffix
* Sub Expression Suffix
*/
void BracketSuffix() #BracketSuffix : {}
{
 <LBRACK> Expression() <RBRACK>
      ( (<LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN> )
         #MethodArguments
```

```
    )?
}

/*
* NonLiteral
* For Grouped Operations, Identifiers, and Functions
*/
void NonLiteral() : {}
{
 <LPAREN> Expression() <RPAREN>
 | LOOKAHEAD(4) Function()
 | Identifier()
}

/*
* Identifier
* Java Language Identifier
*/
void Identifier() #Identifier : { Token t = null; }
{
 t=<IDENTIFIER> { jjtThis.setImage(t.image); }
}

/*
* Function
* Namespace:Name(a,b,c)
*/
void Function() #Function :
{
 Token t0 = null;
 Token t1 = null;
}
{
 t0=<IDENTIFIER> (<COLON> t1=<IDENTIFIER>)?
 {
  if (t1 != null) {
   jjtThis.setPrefix(t0.image);
   jjtThis.setLocalName(t1.image);
  } else {
   jjtThis.setLocalName(t0.image);
  }
 }
 <LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN>
}


/*
```

```
* Literal
* Reserved Keywords
*/
void Literal() : {}
{
 Boolean()
 | FloatingPoint()
 | Integer()
 | String()
 | Null()
}

/*
* Boolean
* For 'true' 'false'
*/
void Boolean() : {}
{
 <TRUE> #True
 | <FALSE> #False
}

/*
* FloatinPoint
* For Decimal and Floating Point Literals
*/
void
 FloatingPoint() #FloatingPoint : { Token t = null; }
{
 t=<FLOATING_POINT_LITERAL> { jjtThis.setImage(t.image); }
}

/*
* Integer
* For Simple Numeric Literals
*/
void Integer() #Integer : { Token t = null; }
{
 t=<INTEGER_LITERAL> { jjtThis.setImage(t.image); }
}

/*
* String
* For Quoted Literals
*/
void String() #String : { Token t = null; }
{
 t=<STRING_LITERAL> { jjtThis.setImage(t.image); }
```

```
}

/*
* Null
* For 'null'
*/
void Null() #Null : {}
{
 <NULL>
}


/*
================================================================================
== */
<DEFAULT> TOKEN :
{
 < LITERAL_EXPRESSION:
   ((~["\\", "$", "#"])
     | ("\\" ("\\" | "$" | "#"))
     | ("$" ~["{", "$"])
     | ("#" ~["{", "#"])
   )+
   | "$"
   | "#"
 >
|
 < START_DYNAMIC_EXPRESSION: "${" > : IN_EXPRESSION
|
 < START_DEFERRED_EXPRESSION: "#{" > : IN_EXPRESSION
}

<DEFAULT> SKIP : { "\\" }

<IN_EXPRESSION> SKIP : { " " | "\t" | "\n" | "\r" }

<IN_EXPRESSION> TOKEN :
{
 < INTEGER_LITERAL: ["0"-"9"]
 (["0"-"9"])* >
| < FLOATING_POINT_LITERAL: (["0"-"9"])+ "." (["0"-"9"])* (<EXPONENT>)?
  | "." (["0"-"9"])+ (<EXPONENT>)?
  | (["0"-"9"])+ <EXPONENT>
 >
| < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
| < STRING_LITERAL: ("\"" ((~["\"","\\"])
  | ("\\" ( ["\\","\""] )))* "\"")
  | ("\'" ((~["\'","\\"])
```

```
 | ("\\" ( ["\\","\""] ))* "\"")
 >
| < BADLY_ESCAPED_STRING_LITERAL: ("\"" (~["\"","\\"])* ("\\" ( ~["\\","\""] )))
 | ("\'" (~["\'","\\"])* ("\\" ( ~["\\","\'"] )))
 >
| < TRUE : "true" >
| < FALSE : "false" >
| < NULL : "null" >
| < END_EXPRESSION : "}" > : DEFAULT
| < DOT : "." >
| < LPAREN : "(" >
| < RPAREN : ")" >
| < LBRACK : "[" >
| < RBRACK : "]" >
| < COLON : ":" >
| < COMMA : "," >
| < GT0 : ">" >
| < GT1 : "gt" >
| < LT0 : "<" >
| < LT1 : "lt" >
| < GE0 : ">=" >
| < GE1 : "ge" >
| < LE0 : "<=" >
| < LE1 : "le" >
| < EQ0 : "==" >
| < EQ1 : "eq" >
| < NE0 : "!=" >
| < NE1 : "ne" >
| < NOT0 : "!" >
| < NOT1 : "not" >
| < AND0 : "&&" >
| < AND1 : "and" >
| < OR0 :
 "||" >
| < OR1 : "or" >
| < EMPTY : "empty" >
| < INSTANCEOF : "instanceof" >
| < MULT : "*" >
| < PLUS : "+" >
| < MINUS : "-" >
| < QUESTIONMARK : "?" >
| < DIV0 : "/" >
| < DIV1 : "div" >
| < MOD0 : "%" >
| < MOD1 : "mod" >
| < IDENTIFIER : (<LETTER>|<IMPL_OBJ_START>) (<LETTER>|<DIGIT>)* >
| < #IMPL_OBJ_START: "#" >
| < #LETTER:
```

```
 [
 "\u0024",
 "\u0041"-"\u005a",
 "\u005f",
 "\u0061"-"\u007a",
 "\u00c0"-"\u00d6",
 "\u00d8"-"\u00f6",
 "\u00f8"-"\u00ff",
 "\u0100"-"\u1fff",
 "\u3040"-"\u318f",
 "\u3300"-"\u337f",
 "\u3400"-"\u3d2d",
 "\u4e00"-"\u9fff",
 "\uf900"-"\ufaff"
 ]
>
| < #DIGIT:
 [
 "\u0030"-"\u0039",
 "\u0660"-"\u0669",
 "\u06f0"-"\u06f9",
 "\u0966"-"\u096f",
 "\u09e6"-"\u09ef",
 "\u0a66"-"\u0a6f",
 "\u0ae6"-"\u0aef",
 "\u0b66"-"\u0b6f",
 "\u0be7"-"\u0bef",
 "\u0c66"-"\u0c6f",
 "\u0ce6"-"\u0cef",
 "\u0d66"-"\u0d6f",
 "\u0e50"-"\u0e59",
 "\u0ed0"-"\u0ed9",
 "\u1040"-"\u1049"
 ]
>
| < ILLEGAL_CHARACTER: (~[]) >
}
```

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* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/ExpressionBuilder.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/JJTELParserState.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/SimpleCharStream.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstValue.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/ELParserTokenManager.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/ELParserConstants.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/ELParserTreeConstants.java
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* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstString.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstDotSuffix.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstEmpty.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstNegative.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstDeferredExpression.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/Token.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstAnd.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/EvaluationContext.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstFunction.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/FunctionMapperImpl.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/ValueExpressionImpl.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/MethodExpressionLiteral.java
*
 /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/ELArithmetic.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/Node.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstIdentifier.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstCompositeExpression.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstChoice.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/ExpressionFactoryImpl.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstMinus.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/util/MessageFactory.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstPlus.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstNull.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstLessThan.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstLiteralExpression.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/TokenMgrError.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstTrue.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstNot.java
*
 /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstNotEqual.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstFalse.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstDynamicExpression.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/VariableMapperImpl.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/VariableMapperFactory.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstMod.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstInteger.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/BooleanNode.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstMult.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstDiv.java

* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstBracketSuffix.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/NodeVisitor.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/util/ReflectionUtil.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/ArithmeticNode.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/lang/FunctionMapperFactory.java
*
/javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstLessThanEqual.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstFloatingPoint.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstOr.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/ParseException.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstEqual.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/AstGreaterThanEqual.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/parser/SimpleNode.java
* /javax-el-2-2-4-sources-1-jar/com/sun/el/ValueExpressionLiteral.java
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1.509 shiro-crypto-cipher 1.6.0

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1.510 accessors-smart 1.2

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* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/Accessor.java
* /accessors-smart-1-2-sources-5-jar/net/minidev/asm/ASMUtil.java

1.511 rtmpdump 2.4+20151223.gitfa8646d.1-1

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1.512 python-pip 9.0.1

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1.515 python-setuptools 39.0.1

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/**
* Base class for all implementations of assertions for {@link Object}s.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation"
*   for
 more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author Yvonne Wang
* @author Alex Ruiz
* @author Nicolas François
* @author Mikhail Mazursky
* @author Joel Costigliola
* @author Libor Ondrusek
*/

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*/
/**
* Base class for all implementations of assertions for {@link Class}es.

```
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*          target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*          for
 more details.
*
* @author William Delanoue
* @author Mikhail Mazursky
*/
```

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*/
/**
* Base class for implementations of <code>{@link ObjectEnumerableAssert}</code> whose actual value type is
* <code>{@link Collection}</code>.
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*          target="_blank">Emulating 'self types' using Java Generics
 to simplify fluent API implementation</a>&amp;quot;
*          for more details.
* @param <ACTUAL> the type of the "actual" value.
* @param <ELEMENT> the type of elements of the "actual" value.
* @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
*
* @author Yvonne Wang
* @author Alex Ruiz
* @author Mathieu Baechler
* @author Joel Costigliola
* @author Maciej Jaskowski
* @author Nicolas François
* @author Mikhail Mazursky
```

* @author Mateusz Haligowski
* @author Lovro Pandzic
* @author Marko Bekhta
*/

Found in path(s):
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractIterableAssert.java
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*/
/**
* Base class for all implementations of assertions for {@link Character}s.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation"
*
 for more details.
*
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
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/**
* Base class for all implementations of assertions for {@link Boolean}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for
 more details.
*
* @author Alex Ruiz
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Mikhail Mazursky
*/
```

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*/
/**
* Base class for all implementations of assertions for {@link Double}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
```

```
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for
 more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Alex Ruiz
* @author Ansgar Konermann
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
*/

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*/
/**
* Base class for all implementations of assertions for {@link Short}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for
 more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Mikhail Mazursky
```

```
* @author Nicolas François
*/

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/**
* Base class for all implementations of assertions for {@link List}s.
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for more
 details.
* @param <ACTUAL> the type of the "actual" value.
* @param <ELEMENT> the type of elements of the "actual" value.
* @param <ELEMENT_ASSERT> used for navigational assertions to return the right assert type.
*
* @author Yvonne Wang
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Jacek Jackowiak
*/

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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractListAssert.java
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/**
* Base class for all implementations of assertions for {@code CharSequence}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &amp;quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*
    for more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author Yvonne Wang
* @author David DIDIER
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas Francois
* @author Daniel Weber
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*/
/**
* Base class for all assertions.
```

```
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*         for more details.
* @param <ACTUAL> the type
 of the "actual" value.
*
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
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/**
* Base class for all implementations of assertions for {@link Long}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*         for more
 details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Joel Costigliola
* @author Mikhail Mazursky
```

```
* @author Nicolas François
*/
```

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*/
/**
* Base class for all implementations of assertions for {@link Date}s.
* <p>
* Note that assertions with date parameter comes with two flavor, one is obviously a {@link Date} and the other is a
* {@link String} representing a Date.<br>
* For the latter, the default format follows ISO 8901 : "yyyy-MM-dd", user can
 override it with a custom format by
* calling {@link #withDateFormat(DateFormat)}.<br>
* The user custom format will then be used for all next Date assertions (i.e not limited to the current assertion) in
* the test suite.<br>
* To turn back to default format, simply call {@link #withDefaultDateFormatsOnly()}.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation</a>" for
*         more details.
* @author Tomasz Nurkiewicz (thanks for giving assertions idea)
* @author Joel Costigliola
* @author Mikhail Mazursky
* @author William Delanoue
* @author Michal Kordas
*/
```

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/**
* Base class for all implementations of assertions for {@link Throwable}s.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation"
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 for more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author David DIDIER
* @author Alex Ruiz
* @author Joel Costigliola
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Descriptable.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainNull.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqual.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldNotBeCancelled.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/MethodSupport.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractMapSizeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainExactly.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Condition.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringCase.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveNoSuppressedExceptions.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractFutureAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractZonedDateTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractOptionalAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldBe.java
*
/assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/Delta.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualWithinPercentage.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeIn.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeBeforeYear.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Shorts.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/groups/Tuple.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringNewLines.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeInstanceOfAny.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicLongAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/BigIntegers.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/IterableDiff.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AssertJProxySetup.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeExactlyInstanceOf.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainCharSequence.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/extractor/ToStringExtractor.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ClassBasedNavigableIterableAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualByComparingOnlyGivenFields.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeEqualWithinPercentage.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeAtIndex.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractCharArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractLocalTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/filter/Filters.java
*
/assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveScheme.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/IgnoringFieldsComparator.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeEqualWithinOffset.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/BooleanArrays.java

* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldBeCompletedExceptionally.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractCompletableFutureAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AssertProvider.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/extractor/ResultOfExtractor.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/configuration/ConfigurationProvider.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeLess.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/myers/Equalizer.java
*
 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ErrorMessages.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ProxyableIterableAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotMatchPattern.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualToIgnoringFields.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveContent.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/description/Description.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Files.java
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 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ObjectAssertFactory.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldNotHaveFailed.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldSatisfy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/DeleteDelta.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotMatch.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/NoElementsShouldMatch.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldHaveAtMost.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/PropertySupport.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/WritableAssertionInfo.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/BinaryDiffResult.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Integers.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/IntArrayAssert.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Maps.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/condition/Not.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ShortArrays.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeFile.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeInstance.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/myers/MyersDiff.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldBeAtMost.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeToday.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveAtLeastOneElementOfType.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Objects.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractEnumerableAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/IterableUtil.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveMethods.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveParameter.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/extractor/ByNameMultipleExtractor.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/FactoryBasedNavigableIterableAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/OptionalLongAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainKeys.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/extractor/Extractors.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHavePropertyOrFieldWithValue.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractAtomicFieldUpdaterAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotStartWith.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldMatch.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractFloatArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/BigDecimals.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/data/MapEntry.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveAnchor.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldHaveFailed.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotContainCharSequence.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeEqualIgnoringWhitespace.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractLocalDateAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ThrowableAssertAlternative.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Booleans.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ElementsShouldNotHave.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/OffsetDateTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainEntry.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotHaveThrown.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainCharSequenceOnlyOnce.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/filter/FilterOperator.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/InputStreamAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldMatch.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/data/Index.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractOffsetTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/FloatComparator.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveCauseInstance.java
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/assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveNoParent.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotEndWith.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContain.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ZippedElementsShouldSatisfy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotContainValue.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ProxyableListAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicLongArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/FieldUtils.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicReferenceFieldUpdaterAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractUrlAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/CommonErrors.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveSameContent.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Java6SoftAssertions.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeBlank.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldOnlyHaveFields.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldStartWithPath.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBe.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveProtocol.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeDirectory.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeBetween.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainOnlyNulls.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/exception/PathsException.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldOnlyHaveElementsOfTypes.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/FailureMessages.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Numbers.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractInstantAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/Warning.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ObjectAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotContain.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/Introspection.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicLongFieldUpdaterAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/description/TextDescription.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/groups/FieldsOrPropertiesExtractor.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringWhitespace.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/DateUtil.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/PropertyOrFieldSupport.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/presentation/Representation.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeNullOrEmpty.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeNormalized.java

* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/Maps.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainValue.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveHost.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringMinutes.java
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 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/UrlAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/OptionalDoubleShouldHaveValueCloseTo.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldBeCompleted.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/VisibleForTesting.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveUserInfo.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ObjectArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeNull.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/introspection/MemberUtils.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Assert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ThrowableTypeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringNewLineDifferences.java
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 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/Closeables.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeSymbolicLink.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveLineCount.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/FutureAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ComparisonStrategy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/description/EmptyTextDescription.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeAfter.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractOptionalDoubleAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractStandardSoftAssertions.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualIgnoringHours.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/EnumerableAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/NioFilesWrapper.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Java6BDDAssertions.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/CommonValidations.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ObjectArrays.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ObjectArrayElementComparisonStrategy.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldNotBeDone.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldStartWith.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AssertDelegateTarget.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainSubsequence.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ErrorMessageFactory.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldBeDone.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveSameHashCode.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/AbstractComparisonStrategy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractTemporalAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ClassLoadingStrategyFactory.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/LongPredicateAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractPredicateAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeEqualIgnoringCase.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveFragment.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Failures.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/TypeComparators.java

* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/Chunk.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Java6JUnitSoftAssertions.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveCause.java
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 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveFields.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotContainNull.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/diff/Patch.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveSameClass.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ZonedDateTimeAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/data/TemporalOffset.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractLocalDateTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveStamp.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicIntegerArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotBeEqual.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/data/TemporalUnitWithinOffset.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ComparableAssert.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/BinaryDiff.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeInSameSecond.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractOffsetDateTimeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/future/ShouldNotBeCompletedExceptionally.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainOnlyDigits.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ProxyableMapAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Doubles.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/HamcrestCondition.java
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* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/data/TemporalUnitLessThanOffset.java
*
 /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/OptionalShouldContainInstanceOf.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/CharacterAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ProxyableObjectArrayAssert.java

* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveSameHourAs.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeBeforeOrEqualsTo.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveMessageMatchingRegex.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/InstantAssert.java
* /assertj-core-3-10-0-sources-2-
jar/org/assertj/core/error/ConditionAndGroupGenericParameterTypeShouldBeTheSame.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/util/BigIntegerComparator.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/configuration/Services.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/presentation/BinaryRepresentation.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/MapAssert.java
*
/assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/MessageFormatter.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ShortAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ShortArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveOnlyElementsOfType.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeBetween.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeEqualWithinOffset.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/filter/InFilter.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/uri/ShouldHaveAuthority.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/Diff.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldNotHaveDuplicates.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AtomicIntegerAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ClassBasedNavigableListAssert.java
*
/assertj-core-3-10-0-sources-2-jar/org/assertj/core/condition/DoesNotHave.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/CharArrayAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/ComparatorBasedComparisonStrategy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainKey.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldBeInSameYear.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/NoElementsShouldSatisfy.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldContainSequenceOfCharSequence.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/MapSizeAssert.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/Assertions.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/internal/InputStreams.java
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/error/ShouldHaveTime.java
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* Base class for all implementations of assertions for {@link InputStream}s.
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*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for
 more details.
* @param <ACTUAL> the type of the "actual" value.
*
* @author Matthieu Baechler
* @author Mikhail Mazursky
*/
```

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*
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*         target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&amp;quot;
*         for
 more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
```

* @author Joel Costigliola
* @author Mikhail Mazursky
* @author Nicolas François
*/

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* Base class for all implementations of assertions for {@link File}s.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation"
*   for more
 details.
*
* @author David DIDIER
* @author Yvonne Wang
* @author Alex Ruiz
* @author Olivier Michallat
* @author Olivier Demeijer
* @author Mikhail Mazursky
* @author Jean-Christophe Gay
*/

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* Base class for all implementations of assertions for {@link Byte}s.
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation"
*   for more
 details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author David DIDIER
* @author Ansgar Konermann
* @author Alex Ruiz
* @author Mikhail Mazursky
* @author Nicolas François
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/**

```
* Base class for all implementations of assertions for {@link Float}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*        target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*        for
 more details.
*
* @author Drummond Dawson
* @author Yvonne Wang
* @author Alex Ruiz
* @author Ansgar Konermann
* @author Mikhail Mazursky
* @author Nicolas François
*/

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/**
* Base class for all implementations of assertions for {@link Map}s.
*
* @param <SELF> the "self" type of this assertion class. Please read &quot;<a href="http://bit.ly/1IZIRcY"
*        target="_blank">Emulating 'self types' using Java Generics to simplify fluent API
implementation</a>&quot;
*        for more
 details.
* @param <ACTUAL> the type of the "actual" value.
* @param <K> the type of keys in the map.
* @param <V> the type of values in the map.
*
* @author David DIDIER
* @author Yvonne Wang
```

* @author Alex Ruiz
* @author Mikhail Mazursky
* @author Nicolas François
* @author dorzey
*/

Found in path(s):
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/AbstractMapAssert.java
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*/
/**
* Assertions methods applicable to groups of objects (e.g. arrays or collections.)
*
* @param <SELF> the "self" type of this assertion class. Please read "<a href="http://bit.ly/1IZIRcY"
*   target="_blank">Emulating 'self types' using Java Generics to simplify fluent API implementation"
*
       for more details.
* @param <ELEMENT> the type of elements of the "actual" value.
*
* @author Yvonne Wang
* @author Alex Ruiz
* @author Nicolas François
* @author Mikhail Mazursky
* @author Joel Costigliola
* @author Nicolas François
* @author Florent Biville
*/

Found in path(s):
* /assertj-core-3-10-0-sources-2-jar/org/assertj/core/api/ObjectEnumerableAssert.java

1.518 binutils 2.30-21ubuntu1~18.04.7

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nickc@redhat.com and I'll correct the situation.

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff

and b.out backends), adding configuration
including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith
Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation
that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,

i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition,
mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the
Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the

Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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suggest you first think carefully about whether
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fits its criteria of freedom. The Lesser General
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use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered

by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any
executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable
source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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  */
```

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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/engine/query/HQLQueryPlan.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/loader/hql/QueryLoader.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/QueryTimeoutException.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/OptimisticLockException.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/tool/hbm2ddl/TableMetadata.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/util/CollectionHelper.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/tuple/entity/DynamicMapEntityTuplizer.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/type/EnumType.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/engine/jdbc/ColumnNameCache.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cache/QueryKey.java
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  * Support for the oracle proprietary join syntax...
  *
  * @return The orqacle join fragment
  */
```

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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/engine/NonFlushedChanges.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/bytecode/buildtime/AbstractInstrumenter.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/loader/MultipleBagFetchException.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/Version.java

* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/bytecode/buildtime/ExecutionException.java
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Found in path(s):
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/loader/collection/CollectionJoinWalker.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/transform/PassThroughResultTransformer.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/hql/ast/util/NodeTraverser.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/tool/hbm2ddl/SchemaUpdate.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/AssertionFailure.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cache/entry/UnstructuredCacheEntry.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/criterion/Conjunction.java

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jar/org/hibernate/exception/TemplatedViolatedConstraintNameExtracter.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/proxy/LazyInitializer.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/id/ForeignGenerator.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/event/def/AbstractVisitor.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/type/descriptor/CharacterStream.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/mapping/IdentifierBag.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/type/TimeZoneType.java

* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/util/xml/OriginImpl.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/mapping/Join.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/type/CharacterArrayClobType.java
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 /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/mapping/ForeignKey.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/dialect/function/SQLFunctionRegistry.java
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/annotations/Cascade.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/annotations/Where.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/type/LiteralType.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/dialect/TeradataDialect.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cfg/SetSimpleValueTypeSecondPass.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cfg/Configuration.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/dialect/SybaseDialect.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/dialect/MimerSQLDialect.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/mapping/RootClass.java
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 /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cfg/PropertyHolderBuilder.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cfg/annotations/PropertyBinder.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/id/SequenceGenerator.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/mapping/Subclass.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/cfg/IndexColumn.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/annotations/SQLUpdate.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/event/def/AbstractReassociateEventListener.java
* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/transaction/synchronization/CallbackCoordinator.java
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* TransactionManagerLookup implementation intended for use with WebSphere
* Application Server (WAS).
* <p/>
* WAS, unlike every other app server on the planet, does not allow direct
* access to the JTS TransactionManager. Instead, for common transaction-
* related tasks users must utilize a proprietary API known as
* ExtendedJTATransaction.
* <p/>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of
* WAS is highly dependent upon (1) WAS version as well as (2) the WAS
* container in which Hibernate will be utilized.
* <p/>
* WebSphereExtendedJTATransactionLookup is reported to work on WAS version 6

* in any of the standard J2EE/JEE component containers.
*
* @author Gavin King
* @author Jesper Udby
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* /hibernate-core-3-6-9-final-sources-2-jar/org/hibernate/hql/classic/package.html
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1.533 jetty-http-spi 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.539 commons-pool 2.2

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1.540 jackson-jaxrs-xml-provider 2.12.7

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1.541 jetty-servlets 9.4.18.v20190429

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 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

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1.542 json4s-jackson 3.2.5

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1.543 opentracing-spring-web-autoconfigure 0.3.2

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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 417758 - [1.8][null] Null safety compromise during array creation.
*   Bug
 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array

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*   John Kew (vmware)   initial implementation
*   Lyor Goldstein (vmware) add support for weaved class being re-defined
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IGenericField.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryDelta.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ProblemFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/SaveIndex.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/Line.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/ReplaceEdit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/ILineStartFinder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedSuperReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/IJavaElementRequestor.java

*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ISynchronizable.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnSuperReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/builder/AbortIncrementalBuildException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/IPathRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ITextStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/ISearchPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/VariablesInfo.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PackageDeclarationLocator.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TreeIterationInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/XMLWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/RangeMarker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/MalformedTreeException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarPackageFragmentInfo.java
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations
 after bug 392099
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*   Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

```
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*       Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
*       Andy Clement (GoPivotal,
 Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*                       Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*                       Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*                       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*                       Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*                       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*                       Bug 419209 - [1.8] Repeating container annotations
 should be rejected in the presence of annotation it contains
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Annotation.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/BundleLoaderSources.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceUse.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/CatchParameterBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ParameterizedType.java
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*   Rob Harrop - SpringSource Inc. (bug 247522)
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*     Jesper S Moller - Contributions for
*         Bug 378674 - "The method can be declared as static" is wrong
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/SuperReference.java
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*     Stephan Herrmann - Contributions for
*         Bug 185682 - Increment/decrement operators mark local variables as read
*         Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetQualifiedNameReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetSingleNameReference.java
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*     Semion Chichelnitsky (semion@il.ibm.com) - bug 208564
*     Jan-Ove Weichel (janove.weichel@vogella.com) - bug 474359
**********************************************************************************/
```

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*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
**********************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/PluginVersionIdentifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/boot/PlatformURLConnection.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/boot/PlatformURLHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/PlatformObject.java
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```
*     Terry Parker <tparker@google.com> - Bug 418092
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryMethod.java
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*     Patrick Tasse - Add extra constructor to Path class (bug 454959)
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IPath.java
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*       bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 -
 [1.8][compiler][codegen] Implement support for serializeable lambdas
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-

jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SyntheticMethodBinding.java
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*   John Kew (vmware)         initial implementation
*   Lyor Goldstein (vmware) add support for weaved class being re-defined
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/AbstractCacheBacking.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/WeavedClassCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/CachedClassReference.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/AbstractFileCacheBacking.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/AbstractIndexedFileCacheBacking.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/GeneratedCachedClassHandler.java
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnContinueStatement.java

* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/classpath/ClasspathManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/TypeElementImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/MRUBundleFileList.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/buddy/GlobalPolicy.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/NestedDirBundleFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/buddy/SystemPolicy.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeParamAnnos.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/SimpleElementValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/ClassElementValue.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/ArrayElementValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/EnumElementValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeVisParamAnnos.java
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Found in path(s):
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ModulePathEntry.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/INameEnvironmentExtension.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
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*   Alex Blewitt (bug 196071)
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*   Stephan Herrmann - contributions for
*   bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug
 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations

```
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*       Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 416190 - [1.8][null]
 detect incompatible overrides due to null type annotations
*       Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 457079 - Regression: type inference
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
 *******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/LookupEnvironment.java
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* Contributors:
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/formatter/TokenManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/javaoptions/JavaBuildOptions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/IBuildMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/internal/AjdeCoreBuildManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/IBuildProgressMonitor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/core/BrowserOutputLocationManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/swing/MessageHandlerPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/IUIBuildMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/core/BrowserBuildProgressMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/ICompilerConfiguration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/core/BrowserErrorHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/BrowserRuntimeProperties.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/core/BrowserCompilerConfiguration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/JavaOptions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/javaoptions/JavaCompilerWarningsOptionsPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/javaoptions/JavaOtherOptionsPanel.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/BrowserMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/AjCompiler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/internal/AjdeCoreMessageHandlerAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/javaoptions/JavaDebugOptionsPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/javaoptions/JavaComplianceOptionsPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/core/PreferenceStoreConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/IRuntimeProperties.java
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*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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* Extended by Adrian Colyer, June 2005 to support unpacking of Signature
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/StandardAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IUnwovenClassFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/TemporaryTypeMunger.java
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*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*   Jesper S Moller -. Contribution for bug 400830: [1.8][formatter] Code formatter for Java 8
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*   IBM - Initial API and implementation
*   Mikael Barbero (Eclipse Foundation) - 286681 handle WAIT_ABANDONED_0 return value
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*   NonStaticAccessToStaticMethod
*   Task
*   ExpressionShouldBeAVariable
*   AssignmentHasNoEffect
*   IBM Corporation - added the following constants
*   TooManySyntheticArgumentSlots
*   TooManyArrayDimensions
*   TooManyBytesForStringConstant

```
*          TooManyMethods
*          TooManyFields
 *          NonBlankFinalLocalAssignment
*          ObjectCannotHaveSuperTypes
*          MissingSemiColon
*          InvalidParenthesizedExpression
*          EnclosingInstanceInConstructorCall
*          BytecodeExceeds64KLimitForConstructor
*          IncompatibleReturnTypeForNonInheritedInterfaceMethod
*          UnusedPrivateMethod
*          UnusedPrivateConstructor
*          UnusedPrivateType
*          UnusedPrivateField
*          IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
*          InvalidExplicitConstructorCall
*      IBM Corporation - added the following constants
*          PossibleAccidentalBooleanAssignment
*          SuperfluousSemicolon
*          IndirectAccessToStaticField
*          IndirectAccessToStaticMethod
*          IndirectAccessToStaticType
*          BooleanMethodThrowingException
*          UnnecessaryCast
*          UnnecessaryArgumentCast
*          UnnecessaryInstanceof
*
    FinallyMustCompleteNormally
*          UnusedMethodDeclaredThrownException
*          UnusedConstructorDeclaredThrownException
*          InvalidCatchBlockSequence
*          UnqualifiedFieldAccess
*      IBM Corporation - added the following constants
*          Javadoc
*          JavadocUnexpectedTag
*          JavadocMissingParamTag
*          JavadocMissingParamName
*          JavadocDuplicateParamName
*          JavadocInvalidParamName
*          JavadocMissingReturnTag
*          JavadocDuplicateReturnTag
*          JavadocMissingThrowsTag
*          JavadocMissingThrowsClassName
*          JavadocInvalidThrowsClass
*          JavadocDuplicateThrowsClassName
*          JavadocInvalidThrowsClassName
*          JavadocMissingSeeReference
*          JavadocInvalidSeeReference
*          JavadocInvalidSeeHref
```

```
*         JavadocInvalidSeeArgs
*         JavadocMissing
*         JavadocInvalidTag
*         JavadocMessagePrefix
 *         EmptyControlFlowStatement
*    IBM Corporation - added the following constants
*         IllegalUsageOfQualifiedTypeReference
*         InvalidDigit
*    IBM Corporation - added the following constants
*         ParameterAssignment
*         FallthroughCase
*    IBM Corporation - added the following constants
*                         UnusedLabel
*                         UnnecessaryNLSTag
*                         LocalVariableMayBeNull
*                         EnumConstantsCannotBeSurroundedByParenthesis
*                         JavadocMissingIdentifier
*                         JavadocNonStaticTypeFromStaticInvocation
*                         RawTypeReference
*                         NoAdditionalBoundAfterTypeVariable
*                         UnsafeGenericArrayForVarargs
*                         IllegalAccessFromTypeVariable
*
  AnnotationValueMustBeArrayInitializer
*                         InvalidEncoding
*                         CannotReadSource
*                         EnumStaticFieldInInInitializerContext
*                         ExternalProblemNotFixable
*                         ExternalProblemFixable
*    IBM Corporation - added the following constants
*                         AnnotationValueMustBeAnEnumConstant
*                         OverridingMethodWithoutSuperInvocation
*                         MethodMustOverrideOrImplement
*                         TypeHidingTypeParameterFromType
*                         TypeHidingTypeParameterFromMethod
*                         TypeHidingType
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*         NullLocalVariableReference
*         PotentialNullLocalVariableReference
*         RedundantNullCheckOnNullLocalVariable
*          NullLocalVariableComparisonYieldsFalse
 *          RedundantLocalVariableNullAssignment
*          NullLocalVariableInstanceofYieldsFalse
*          RedundantNullCheckOnNonNullLocalVariable
*          NonNullLocalVariableComparisonYieldsFalse
*    IBM Corporation - added the following constants
*                         InvalidUsageOfTypeParametersForAnnotationDeclaration
*                         InvalidUsageOfTypeParametersForEnumDeclaration
```

```
*     IBM Corporation - added the following constants
*          RedundantSuperinterface
*  Benjamin Muskalla - added the following constants
*         MissingSynchronizedModifierInInheritedMethod
*  Stephan Herrmann  - added the following constants
*         UnusedObjectAllocation
*         PotentiallyUnclosedCloseable
*         PotentiallyUnclosedCloseableAtExit
*         UnclosedCloseable
*         UnclosedCloseableAtExit
*         ExplicitlyClosedAutoCloseable
*            RequiredNonNullButProvidedNull
 *          RequiredNonNullButProvidedPotentialNull
*          RequiredNonNullButProvidedUnknown
*          NullAnnotationNameMustBeQualified
*          IllegalReturnNullityRedefinition
*          IllegalRedefinitionToNonNullParameter
*          IllegalDefinitionToNonNullParameter
*          ParameterLackingNonNullAnnotation
*          ParameterLackingNullableAnnotation
*          PotentialNullMessageSendReference
*          RedundantNullCheckOnNonNullMessageSend
*          CannotImplementIncompatibleNullness
*          RedundantNullAnnotation
*         RedundantNullDefaultAnnotation
*         RedundantNullDefaultAnnotationPackage
*         RedundantNullDefaultAnnotationType
*         RedundantNullDefaultAnnotationMethod
*         ContradictoryNullAnnotations
*         IllegalAnnotationForBaseType
*         RedundantNullCheckOnSpecdNonNullLocalVariable
*         SpecdNonNullLocalVariableComparisonYieldsFalse
*         RequiredNonNullButProvidedSpecdNullable
*         MissingDefaultCase
 *         MissingEnumConstantCaseDespiteDefault
*         UninitializedLocalVariableHintMissingDefault
*         UninitializedBlankFinalFieldHintMissingDefault
*         ShouldReturnValueHintMissingDefault
*         IllegalModifierForInterfaceDefaultMethod
*         InheritedDefaultMethodConflictsWithOtherInherited
*         ConflictingNullAnnotations
*         ConflictingInheritedNullAnnotations
*         UnsafeElementTypeConversion
*         ArrayReferencePotentialNullReference
*         DereferencingNullableExpression
*         NullityMismatchingTypeAnnotation
*         NullityMismatchingTypeAnnotationSuperHint
*         NullityUncheckedTypeAnnotationDetail
```

* NullityUncheckedTypeAnnotationDetailSuperHint
* NullableFieldReference
* UninitializedNonNullField
* UninitializedNonNullFieldHintMissingDefault
* NonNullMessageSendComparisonYieldsFalse
* RedundantNullCheckOnNonNullSpecdField
* NonNullSpecdFieldComparisonYieldsFalse
* NonNullExpressionComparisonYieldsFalse
* RedundantNullCheckOnNonNullExpression
* ReferenceExpressionParameterNullityMismatch
* ReferenceExpressionParameterNullityUnchecked
* ReferenceExpressionReturnNullRedef
* ReferenceExpressionReturnNullRedefUnchecked
* DuplicateInheritedDefaultMethods
* SuperAccessCannotBypassDirectSuper
* SuperCallCannotBypassOverride
* ConflictingNullAnnotations
* ConflictingInheritedNullAnnotations
* UnsafeElementTypeConversion
* PotentialNullUnboxing
* NullUnboxing
* NullExpressionReference
* PotentialNullExpressionReference
* RedundantNullCheckAgainstNonNullType
* NullAnnotationUnsupportedLocation
* NullAnnotationUnsupportedLocationAtType
* NullityMismatchTypeArgument
* ContradictoryNullAnnotationsOnBound
* UnsafeNullnessCast
* ContradictoryNullAnnotationsInferred
* NonNullDefaultDetailIsNotEvaluated
* NullNotCompatibleToFreeTypeVariable
* NullityMismatchAgainstFreeTypeVariable
* ImplicitObjectBoundNoNullDefault
* IllegalParameterNullityRedefinition
* ContradictoryNullAnnotationsInferredFunctionType
* IllegalReturnNullityRedefinitionFreeTypeVariable
* UnlikelyCollectionMethodArgumentType
* UnlikelyEqualsArgumentType
* Jesper S Moller - added the following constants
* TargetTypeNotAFunctionalInterface
* OuterLocalMustBeEffectivelyFinal
* IllegalModifiersForPackage
* DuplicateAnnotationNotMarkedRepeatable
* DisallowedTargetForContainerAnnotation
* RepeatedAnnotationWithContainerAnnotation
* ContainingAnnotationMustHaveValue
* ContainingAnnotationHasNonDefaultMembers

* ContainingAnnotationHasWrongValueType
* ContainingAnnotationHasShorterRetention
* RepeatableAnnotationHasTargets
* RepeatableAnnotationTargetMismatch
* RepeatableAnnotationIsDocumented
* RepeatableAnnotationIsInherited
* RepeatableAnnotationWithRepeatingContainerAnnotation
* VarLocalMultipleDeclarators
* VarLocalCannotBeArray
* VarLocalReferencesItself
* VarLocalWithoutInitizalier
* VarLocalInitializedToNull
* VarLocalCannotBeArrayInitalizers
* VarLocalCannotBeLambda
* VarLocalCannotBeMethodReference
* VarIsReserved
* VarIsReservedInFuture
* VarIsNotAllowedHere
**********/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/IProblem.java
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* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - Contributions for
* bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* bug 370639 - [compiler][resource] restore the default for resource leak warnings
* bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* Bug 417758 - [1.8][null] Null safety compromise during array creation.
* Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)

**********/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ArrayInitializer.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ModuleSourcePathManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryModule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IModulePathEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ProjectEntry.java
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*   Stephan Herrmann - Contribution for
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathChange.java
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*  Contributors:
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*     Red Hat Incorporated - loadProjectDescription(InputStream)
*     Broadcom Corporation - build configurations and references
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IWorkspace.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/CommandLineArgs.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/CompletionFlags.java
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* Stephan Herrmann - Contribution for Bug 378024 - Ordering of comments between imports not preserved
* John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportRewriteAnalyzer.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/CapabilityRefDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/RequirementRefDTO.java

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*     Andy Clement - SpringSource
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/CommonPrinter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/OrSignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/PushinCollector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AbstractSignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ITDConstructorPrinter.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/DeclareAnnotationsPrinter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ITDMethodPrinter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndSignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/IntertypeMemberClassDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotSignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ITDFieldPrinter.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/debug/DebugOptionsListener.java
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*     IBM Corporation - initial API and implementation
*     Chris McGee (IBM) - Bug 380325 - Release filesystem fragment providing Java 7 NIO2 support
*     Sergey Prigogin (Google) - Bug 458006 - Fix tests that fail on Mac when filesystem.java7 is used
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/nio/DefaultHandler.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/debug/EclipseDebugTrace.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ModifiedServiceEvent.java
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*   PARC   initial implementation
* **/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/Scanner.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/FrameworkListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/ServiceListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/BundleListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/Filter.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/debug/DebugOptions.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/sources/PackageSource.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/sources/SingleSourcePackage.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/QualifiedType.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/WildcardType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IExtensionRegistry.java
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*   IBM Corporation - initial API and implementation
*   IBM Corporation - added the following constants:
*   COMPILER_PB_DEPRECATION_IN_DEPRECATED_CODE
*   COMPILER_PB_STATIC_ACCESS_RECEIVER
*   COMPILER_TASK_TAGS
*   CORE_CIRCULAR_CLASSPATH
*   CORE_INCOMPLETE_CLASSPATH
*   IBM Corporation - added run(IWorkspaceRunnable, IProgressMonitor)
*
    IBM Corporation - added exclusion patterns to source classpath entries
*   IBM Corporation - added specific output location to source classpath entries
*   IBM Corporation - added the following constants:
*   CORE_JAVA_BUILD_CLEAN_OUTPUT_FOLDER
*   CORE_JAVA_BUILD_RECREATE_MODIFIED_CLASS_FILES_IN_OUTPUT_FOLDER
*   CLEAN
*   IBM Corporation - added getClasspathContainerInitializer(String)

```
*    IBM Corporation - added the following constants:
*                    CODEASSIST_ARGUMENT_PREFIXES
*                    CODEASSIST_ARGUMENT_SUFFIXES
*                    CODEASSIST_FIELD_PREFIXES
*                    CODEASSIST_FIELD_SUFFIXES
*                    CODEASSIST_LOCAL_PREFIXES
*                    CODEASSIST_LOCAL_SUFFIXES
*                    CODEASSIST_STATIC_FIELD_PREFIXES
*
                  CODEASSIST_STATIC_FIELD_SUFFIXES
*                    COMPILER_PB_CHAR_ARRAY_IN_STRING_CONCATENATION
*    IBM Corporation - added the following constants:
*                    COMPILER_PB_LOCAL_VARIABLE_HIDING
*                    COMPILER_PB_SPECIAL_PARAMETER_HIDING_FIELD
*                    COMPILER_PB_FIELD_HIDING
*                    COMPILER_PB_POSSIBLE_ACCIDENTAL_BOOLEAN_ASSIGNMENT
*                    CORE_INCOMPATIBLE_JDK_LEVEL
*                    VERSION_1_5
*                    COMPILER_PB_EMPTY_STATEMENT
*    IBM Corporation - added the following constants:
*                    COMPILER_PB_INDIRECT_STATIC_ACCESS
*                    COMPILER_PB_BOOLEAN_METHOD_THROWING_EXCEPTION
*                    COMPILER_PB_UNNECESSARY_CAST
*    IBM Corporation - added the following constants:
*
                 COMPILER_PB_INVALID_JAVADOC
*                    COMPILER_PB_INVALID_JAVADOC_TAGS
*                    COMPILER_PB_INVALID_JAVADOC_TAGS_VISIBILITY
*                    COMPILER_PB_MISSING_JAVADOC_TAGS
*                    COMPILER_PB_MISSING_JAVADOC_TAGS_VISIBILITY
*                    COMPILER_PB_MISSING_JAVADOC_TAGS_OVERRIDING
*                    COMPILER_PB_MISSING_JAVADOC_COMMENTS
*                    COMPILER_PB_MISSING_JAVADOC_COMMENTS_VISIBILITY
*                    COMPILER_PB_MISSING_JAVADOC_COMMENTS_OVERRIDING
*                    COMPILER_PB_DEPRECATION_WHEN_OVERRIDING_DEPRECATED_METHOD
*
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_WHEN_OVERRIDING
*    IBM Corporation - added the following constants:
*                    TIMEOUT_FOR_PARAMETER_NAME_FROM_ATTACHED_JAVADOC
*
  IBM Corporation - added the following constants:
*                    COMPILER_PB_FALLTHROUGH_CASE
*                    COMPILER_PB_PARAMETER_ASSIGNMENT
*                    COMPILER_PB_NULL_REFERENCE
*    IBM Corporation - added the following constants:
*                    CODEASSIST_DEPRECATION_CHECK
*    IBM Corporation - added the following constants:
*                    COMPILER_PB_POTENTIAL_NULL_REFERENCE
```

```
*                       COMPILER_PB_REDUNDANT_NULL_CHECK
*     IBM Corporation - added the following constants:
*                       COMPILER_PB_UNUSED_PARAMETER_INCLUDE_DOC_COMMENT_REFERENCE
*     IBM Corporation - added the following constants:
*
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_INCLUDE_DOC_COMMENT_REFEREN
CE
*     IBM Corporation - added the following constants:
*                       COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION
 *        COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_NO_TAG
*        COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_RETURN_TAG
*        COMPILER_PB_MISSING_JAVADOC_TAG_DESCRIPTION_ALL_TAGS
*     IBM Corporation - added the following constants:
*                       COMPILER_PB_REDUNDANT_SUPERINTERFACE
*     IBM Corporation - added the following constant:
*
COMPILER_PB_UNUSED_DECLARED_THROWN_EXCEPTION_EXEMPT_EXCEPTION_AND_THROWA
BLE
*     IBM Corporation - added getOptionForConfigurableSeverity(int)
*     Benjamin Muskalla - added COMPILER_PB_MISSING_SYNCHRONIZED_ON_INHERITED_METHOD
*     Stephan Herrmann  - added COMPILER_PB_UNUSED_OBJECT_ALLOCATION
*     Stephan Herrmann  - added COMPILER_PB_SUPPRESS_OPTIONAL_ERRORS
*     Stephan Herrmann  - added the following constants:
*          COMPILER_PB_UNCLOSED_CLOSEABLE,
*          COMPILER_PB_POTENTIALLY_UNCLOSED_CLOSEABLE
*          COMPILER_PB_EXPLICITLY_CLOSED_AUTOCLOSEABLE
 *          COMPILER_ANNOTATION_NULL_ANALYSIS
*          COMPILER_NULLABLE_ANNOTATION_NAME
*          COMPILER_NONNULL_ANNOTATION_NAME
*          COMPILER_PB_NULL_SPECIFICATION_VIOLATION
*          COMPILER_PB_POTENTIAL_NULL_SPECIFICATION_VIOLATION
*          COMPILER_PB_NULL_SPECIFICATION_INSUFFICIENT_INFO
*       COMPILER_PB_MISSING_ENUM_CASE_DESPITE_DEFAULT
*       COMPILER_PB_SWITCH_MISSING_DEFAULT_CASE
*       COMPILER_INHERIT_NULL_ANNOTATIONS
*       COMPILER_PB_NONNULL_PARAMETER_ANNOTATION_DROPPED
*       COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*       COMPILER_PB_UNLIKELY_COLLECTION_METHOD_ARGUMENT_TYPE
*       COMPILER_PB_UNLIKELY_EQUALS_ARGUMENT_TYPE
*     Jesper S Moller   - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*                  - added the following constants:
*       COMPILER_CODEGEN_METHOD_PARAMETERS_ATTR
*     Harry Terkelsen (het@google.com) - Bug 449262
 - Allow the use of third-party Java formatters
*     Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
*     Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
*
```

**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionWorld.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/IndexLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/UnionType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/DefaultJavaIndexer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/FileIndexLocation.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    IBM Corporation - implemented methods from IBinding
*    IBM Corporation - renamed from ResolvedAnnotation to AnnotationBinding
*    IBM Corporation - Fix for 328969
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```

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*     Francis Lynch (Wind River) - [301563] Save and load tree snapshots
*     Broadcom Corporation - ongoing development
*     Sergey Prigogin (Google) - [437005] Out-of-date .snap file prevents Eclipse from running
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
```

```
*     Mickael Istria (Red Hat Inc.) - Bug 488937
*******************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/LocalMetaArea.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/TypeAnnotationGen.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/MethodParameters.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ExpressionMethodReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TypeMethodReference.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Dimension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/FragmentLoader.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NameQualifiedType.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/LambdaExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SuperMethodReference.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/InferenceFailureException.java
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*   Apache Software Foundation - Initial implementation
*   Pascal Rapicault, IBM - Pascal remove the entrySet() implementation because it relied on another class.
*   IBM - change to int keys, remove support for weak
 references, and remove unused methods
*   Rafik Jaouani - fix for the timing problem in case an item with the same key is added (bug 205117)
*/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ReferenceMap.java
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*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AddAtAspectJAnnotationsVisitor.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/ValidateAtAspectJAnnotationsVisitor.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BrowserViewManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/SimpleStructureViewToolPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/StructureViewPanel.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/MultiStructureViewPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureViewManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/StructureTree.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BuildConfigPopupMenu.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/DefaultBuildProgressMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/LstBuildConfigFileUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/UpdateConfigurationDialog.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BrowserStructureViewToolPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BuildProgressPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BrowserView.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/CompilerMessagesCellRenderer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeFactory.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/TreeViewBuildConfigEditor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/BasicEditor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/internal/UserPreferencesStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BrowserViewPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/SwingTreeViewNodeRenderer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/BrowserManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/BrowserViewTreeListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/swing/BrowserOptionsPanel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/OptionsFrame.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureSearchManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/GoToLineThread.java
*

/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/StructureTreeManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/LstBuildConfigManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/AJButtonMenuCombo.java
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* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Frame.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/FieldWriter.java
*
/aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/signature/SignatureVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Type.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Handle.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Handler.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodVisitor.java

* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ModuleWriter.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/AnnotationVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/TypePath.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Constants.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassReader.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ByteVector.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodTooLargeException.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/RecordComponentVisitor.java
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 /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/FieldVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ModuleVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Label.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Attribute.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/TypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/MethodWriter.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Context.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/CurrentFrame.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassTooLargeException.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Symbol.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/ClassWriter.java
* /aspectjtools-1-9-8-sources-1-jar/aj/org/objectweb/asm/Edge.java
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*         Bug 458396 - NPE in CodeStream.invoke()
*******************************************************************************/
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*   Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*   Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
*   Markus Schorn (Wind River) - [306575] Save snapshot location with project
*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*   Mickael Istria (Red Hat Inc.) - Bug 488937
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*/
/**
  * Creates a new {@code PackagePermission} object.
  *
  * <p>
  * The name is specified as a normal Java package name: a dot-separated
  * string. Wildcards may be used.
  *
  * <pre>
  * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot;&gt; | *
  * </pre>
  *
  *
 Examples:
  *
  * <pre>
  * org.osgi.service.http
  * javax.servlet.*
  * *
  * </pre>
  *
  * For the {@code import} action, the name can also be a filter expression.
  * The filter gives access to the following attributes:
  * <ul>
  * <li>signer - A Distinguished Name chain used to sign the exporting
  * bundle. Wildcards in a DN are not matched according to the filter string
  * rules, but according to the rules defined for a DN chain.</li>
  * <li>location - The location of the exporting bundle.</li>
  * <li>id - The bundle ID of the exporting bundle.</li>
  * <li>name - The symbolic name of the exporting bundle.</li>
```

```
 * <li>package.name - The name of the requested package.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 *
 * <p>
 * Package Permissions are granted over all possible versions of a package.
 *
 * A bundle that needs to export a package must have the appropriate
 * {@code PackagePermission} for that package; similarly,
a bundle that
 * needs to import a package must have the appropriate
 * {@code PackagePermssion} for that package.
 * <p>
 * Permission is granted for both classes and resources.
 *
 * @param name Package name or filter expression. A filter expression can
 *        only be specified if the specified action is {@code import}.
 * @param actions {@code exportonly},{@code import} (canonical order).
 * @throws IllegalArgumentException If the specified name is a filter
 *         expression and either the specified action is not {@code import}
 *         or the filter has an invalid syntax.
 */
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/RequiresStatement.java
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*     Julian Chen - fix for bug #92572, jclRM
*     Jan-Ove Weichel (janove.weichel@vogella.com) - bug 474359
*     InterSystems Corporation - bug 444188
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/EclipsePreferences.java
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*     Jesper Steen Moeller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
```

**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/MethodInfo.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareDeclaration.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PerObject.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/InterTypeMethodDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AspectDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/core/dom/AjTypeDeclFactory.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AndPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AdviceDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ReferencePointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/OrPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PerTypeWithin.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/core/dom/AjASTConverterFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BeforeAdviceDeclaration.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PointcutDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PerCflow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AfterThrowingAdviceDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NotPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AjTypeDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AroundAdviceDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/InterTypeFieldDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AfterReturningAdviceDeclaration.java
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*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Stephan Herrmann - Contribution for
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 416182 - [1.8][compiler][null]
 Contradictory null annotations not rejected
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 292478 - Report potentially null across variable assignment
*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*   Bug 430150 - [1.8][null] stricter checking against type variables
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*   Bug 529556 - [18.3] Add content assist support for 'var' as a type
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 426616 - [1.8][compiler] Type Annotations, multiple problems
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*     Stefan Xenos - bug 174539 - add a 1-argument convert(...) method
*     Stefan Xenos - bug 174040 - SubMonitor#convert doesn't always set task name
*     Stefan Xenos - bug 206942 - updated javadoc to recommend better constants for infinite progress
*     Stefan Xenos (Google) - bug 475747 - Support efficient, convenient cancellation checks in SubMonitor
*     Stefan Xenos (Google) - bug 476924 - Add a SUPPRESS_ISCANCELED flag to SubMonitor
 *     IBM Corporation - ongoing maintenance
*     Christoph Laeubrich - adjust to new API
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*     Martin Oberhuber (Wind River) - [210664] descriptionChanged(): ignore LF style
*     Martin Oberhuber (Wind River) - [233939] findFilesForLocation() with symlinks
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Sergey Prigogin (Google) - [338010] Resource.createLink() does not preserve symbolic links
*                              - [462440] IFile#getContents methods should specify the status codes for its exceptions
*
    Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*     Karsten Thoms <karsten.thoms@itemis.de> - Bug 521500
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaModel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ITypeHierarchy.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaModelMarker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/IntLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IWorkingCopy.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/LongLiteralMinValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/IndexBinaryFolder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/LongLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ISlaveDocumentManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionJavadocParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionJavadoc.java
*
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/PatternSearchJob.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelStatus.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathValidation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceMethodElementInfo.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IElementChangedListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IBytecodeVisitor.java
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*         bug 185682 - Increment/decrement operators mark local variables as read
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 392384 - [1.8][compiler][null] Restore nullness
 info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*         Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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*   Bug 186342 - [compiler][null] Using annotations for null checking
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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/**

```
 * Test if a given requirement should be wired in the resolve operation. If
 * this method returns {@code false}, then the resolver should ignore this
 * requirement during the resolve operation.
 *
 * <p>
 * The primary use case for this is to test the {@code effective} directive
 * on
 the requirement, though implementations are free to use any effective
 * test.
 *
 * @param requirement The Requirement to test. Must not be {@code null}.
 * @return {@code true} if the requirement should be considered as part of
 *         the resolve operation.
 */
```

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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/MementoTokenizer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/BundleLoader.java
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   IBM Corporation - changed interface to extend IBinding
*   IBM Corporation - renamed from IResolvedMemberValuePair to IMemberValuePairBinding
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IMemberValuePairBinding.java
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* Contributors:
*   Alexandre Vasseur   initial implementation
*   Abraham Nevado - Lucierna simple caching strategy
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/BundleRequirement.java
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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/CodeAttribute.java
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* Contributors:
*    Walter Harley - initial API and implementation
*    IBM Corporation - fix for 342598, 382590
*    Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/TypesImpl.java
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*     Stephan Herrmann - Contributions for
*        bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*        bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredType.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeInvisibleTypeAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ILocalVariableReferenceInfo.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/TypeAnnotationWalker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/InferenceSubstitution.java
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* Contributors:
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*   Stephan Herrmann - contribution for bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/NameLookup.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SearchableEnvironment.java
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*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null]
 Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check

* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/ContentProvider.java

* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/connect/ConnectInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/connect/ConnectBundleFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/YieldStatement.java
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*   Anton Leherbauer <anton.leherbauer@windriver.com> - [projection] "Backspace" key deleting something else - http://bugs.eclipse.org/301023
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* Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
*   Mickael Istria (Red Hat Inc.) - Bug 488937
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*******************************************************************************/
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Found in path(s):
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*         Bug 440474 - [null] textual encoding of external null annotations
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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 467032 - TYPE_USE Null Annotations: IllegalStateException with annotated arrays of Enum when accessed
via BinaryTypeBinding
**********/

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*     Stephan Herrmann  - Contribution for bug 295551
*     Jesper S Moller   - Contributions for
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Frits Jalvingh    - contributions for bug 533830.
*     Red Hat Inc.      - add module-info Javadoc support
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/InternalTeamHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/IStringPoolParticipant.java
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*     Baltasar Belyavsky (Texas Instruments) - [361675] Order mismatch when saving/restoring workspace trees
*     Broadcom Corporation - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 381443
 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary
*   Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
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*         Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*         Bug 462768 - [null] NPE when using linked folder for external annotations
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/eventmgr/CopyOnWriteIdentityMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/eventmgr/EventListeners.java
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*   Stephan Herrmann - Contributions for
*   Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*   Bug 388630 - @NonNull diagnostics at line 0
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 424727 - [compiler][null] NullPointerException
 in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
 *   Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*   Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource

```
*                       Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TypeDeclaration.java
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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/ClassFileConstants.java
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* Contributors:
*    IBM Corporation - initial API and implementation
*    Martin Oberhuber (Wind River) - [170317] add symbolic link support to API
*    Sergey Prigogin (Google) - [464072] Refresh on Access ignored during text search
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*     IBM Corporation - initial API and implementation
*     Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
* Markus Schorn (Wind River) - [306575] Save snapshot location with project
*******************************************************************************/
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*       Bug 458396 - NPE in CodeStream.invoke()
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 403086 - [compiler][null] include the effect of 'assert'
 in syntactic null analysis for fields
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/EqualExpression.java
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*     Genady Beriozkin - added support for reporting assignment with no effect
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 292478 - Report potentially null across variable assignment
*           bug 335093 - [compiler][null] minimal hook for future null annotation support
*           bug 349326 - [1.7] new warning for missing
 try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 370639 - [compiler][resource] restore the default for resource leak warnings
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 402993 - [null] Follow up of bug 401088: Missing
```

warning about redundant null check
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 427438 - [1.8][compiler] NPE at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
**********/

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*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
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*     Christoph Läubrich - remove reference to InternalPlatform.getDefault().log
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*   Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Stephan Herrmann - Contribution for
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
* Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
* Bug 426563 - [1.8] AIOOBE when method with error
 invoked with lambda expression as argument
* Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
* Bug 427438 - [1.8][compiler] NPE at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
* Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
* Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
* Bug 438458 - [1.8][null] clean up handling of null type annotations
 wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 455723 - Nonnull argument not correctly inferred in loop
* Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/ContributorFactorySimple.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/spi/IRegistryProvider.java
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 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ShallowResourceMapping.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveryScanner.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/StringLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/eval/IEvaluationContext.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/ReferenceMatch.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ProblemPackageBinding.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/diagnose/DiagnoseParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SwitchStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/CharacterLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ClassInstanceCreation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/SearchParticipant.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/eval/ICodeSnippetRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaElementDelta.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/HashtableOfPackage.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocAllocationExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/QualifiedTypeReference.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TerminalTokens.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/FieldAccess.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BodyDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BreakStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/ClassFormatException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/ConflictedParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/CommentRecorderParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocMessageSend.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ArrayCreation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Type.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/NamingConventions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/BranchStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SetContainerOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/CategorizedProblem.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ListLineTracker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Statement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/WorkingCopyOwner.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMNode.java
* /aspectjtools-1-9-8-sources-1-

jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/TypeReferenceLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/ITerminalSymbols.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarPackageFragmentRoot.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/VariableDeclaration.java
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*   PARC   initial implementation
*   Alexandre Vasseur   support for @AJ style
* **/

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
*   Stephan Herrmann - Contribution for
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 429958
 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
*   Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Wildcard.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchAnnotationProcessorManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/hookregistry/StorageHookFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/JobOSGiUtils.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/classpath/FragmentClasspath.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/hookregistry/ClassLoaderHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ClassFilePool.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/classpath/ClasspathEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavadocConstants.java
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*     Ben Konrath <ben@bagu.org> - initial implementation
*     Red Hat Incorporated - improvements based on comments from JDT developers
*     IBM Corporation - Code review and integration
*     IBM Corporation - Fix for 340181
*******************************************************************************/
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* Contributors:
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*   Stephan Herrmann - Contribution for
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug
 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 441693 -
 [1.8][null] Bogus warning for type argument annotated with @NonNull
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
***/

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* Contributors:
*   IBM Corporation - initial API and implementation
* Martin Oberhuber (Wind River) - [184534] get attributes from native lib
**/

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*
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/TABLESWITCH.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/ClassLoaderReference.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/BasicType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ClassGen.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/ConstantsInitializer.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ReturnaddressType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantMethodref.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LOOKUPSWITCH.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Modifiers.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ArrayType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/InnerClasses.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/BranchHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/Synthetic.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/ObjectType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/util/ByteSequence.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/FieldInstruction.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantDynamic.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/IINC.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/LineNumber.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/InstructionHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/FieldOrMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ConstantInvokeDynamic.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 331649 - [compiler][null] consider
 null annotations for fields
*   Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
*   Jesper S Møller <jesper@selskabet.org> - Contributions for
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/OrTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnyTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IdentifierTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AbstractBooleanTypePattern.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/FormalBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NotTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/WildTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BindingTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AndTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/HasMemberTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NoTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TypeCategoryTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnyWithAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ExactTypePattern.java
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* Contributors:
*   Andy Clement   - initial implementation 26Jul06
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*   James Blackburn (Broadcom Corp.) - Bug 311863 Ordered Lock lost after interrupt
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/formatter/IndentManipulation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/MissingTypesGuesser.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMessageSendName.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/signedcontent/SignedContentMessages.java
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*   Stephan Herrmann - Contributions for
*   bug 292478 - Report potentially null across variable assignment
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field
 references
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 426792 - [1.8][inference][impl] generify new type inference engine
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*   Bug 426996

- [1.8][inference] try to avoid method Expression.unresolve()?
*   Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTVisitor.java
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*      Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*        bug 317046 - Exception during debugging when hover mouse over a field
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*        bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class
 files
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*        Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
*        Bug 426792 - [1.8][inference][impl] generify new type inference engine
*        Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*        Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*        Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
 *       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*        Bug 435962 - [RC2] StackOverFlowError when building
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*        Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*      Jesper S Moller <jesper@selskabet.org> -  Contributions for
*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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*   Julian Chen - fix for bug #92572, jclRM
*   Benjamin Cabe <benjamin.cabe@anyware-tech.com> - fix for bug 265532
*   Christoph Läubrich - remove InternalPlatform.getDefault().log (bug 55083)
**/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationModelExtension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEditProcessor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/AbstractLineTracker.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/ElementTreeIterator.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MemberDeclarationVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/SequentialRewriteTextStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/MoveSourceEdit.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/Preferences.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ResourceStatus.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/MoveTargetEdit.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/PathVariableChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/JavaSearchDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/undo/DocumentUndoManagerRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/Policy.java

*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MoveDeleteHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/AnnotationModelEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/CopyTargetEdit.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/LinkedModeModel.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SaveContext.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/Log.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/CopySourceEdit.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/LinkedPositionGroup.java
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/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/DefaultElementComparator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/SafeFileInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateContextType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateTranslator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarEntryDirectory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ConstructorLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/JavaModelException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/AnnotationMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEdit.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SavedState.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationModel.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/ProjectionDocumentManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarEntryResource.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetEvaluator.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/StackMapTableAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/JavaSearchTypeNameMatch.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IConfigurationElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/InnerClassesAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ITypeHierarchyChangedListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ILocalVariableAttribute.java
* /aspectjtools-1-9-8-sources-1-
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ILineTracker.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Message.java
*
/aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/HashtableOfObjectToIntArray.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/SimpleLookupTable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/HierarchyType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/TypeNameMatchRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/SearchMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ICodeCompletionRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ClassFormatException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceDelta.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/NameSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IDependent.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ClassFileAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/DOMImport.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnJavadocFieldReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ISourceManipulation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/MissingSourceFileException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/StringLiteralConcatenation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CommitWorkingCopyOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IClassFileAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IAnnotationComponent.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ExceptionAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/ShouldNotImplement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/FieldPattern.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnFieldReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/LineInformation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DefaultWorkingCopyOwner.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/diagnose/RangeUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetTypeDeclaration.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnJavadoc.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/AbortCompilationUnit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/IDocumentElementRequestor.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMethodTypeParameter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/SignatureAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateTypeHierarchyOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/RenameResourceElementsOperation.java
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*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208
*   Mateusz Matela <mateusz.matela@gmail.com> - NPE in WrapExecutor during Java text formatting - https://bugs.eclipse.org/465669
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/AnyThreadAppLauncher.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/Activator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/EclipseAppDescriptor.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**/

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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/url/URLStreamHandlerService.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/startlevel/StartLevel.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/url/URLConstants.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/FrameworkStartLevel.java
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*   Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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*          bug 325755 - [compiler] wrong initialization state after conditional expression
*          bug 320170 - [compiler] [null] Whitebox issues in null analysis
*          bug 292478 - Report potentially null across variable assignment
*          bug 332637 - Dead Code detection removing code that isn't dead
*          bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
 *          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*       Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 365531 - [compiler][null] investigate alternative strategy for internally
 encoding nullness defaults
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*   Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*   Bug 443347 - [1.8][null]
 @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*   Bug 471611 - Error on hover on call to generic method with null annotation
*   Jesper Steen Moller - Contributions for
*   Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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*     Stephan Herrmann - Contribution for
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*     Sebastian Zarnekow - Contribution for
*        Bug 544921 - [performance] Poor performance with large source files
**********************************************************************************/
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* Contributors:
*   PARC   initial implementation
*   Andy Clement   pushed down into bcel module
* **/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/Tag.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/generic/LocalVariableTag.java

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*     IBM Corporation - bug fixes
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Found in path(s):
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*  Stephan Herrmann - Contribution for
*       bug 401035 - [1.8] A few tests have started failing recently
*     Jesper Steen Møller - Contributions for
*                         bug 529552 - [18.3] Add 'var' in completions
*                         Bug 529556 - [18.3] Add content assist support for 'var' as a type
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionParser.java
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*   Sergey Prigogin (Google) - use parameterized types (bug 442021)
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/ResourceTranslator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/FindSupport.java
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*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*   Mickael Istria (Red Hat Inc.) - Bug 488937
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerSnapshotReader_1.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SyncInfoReader.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerReader_2.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerSnapshotReader_2.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/ElementTreeWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerReader_3.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerReader_1.java
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*
**********************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/IProcessorProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/NameImpl.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/projectvariables/ProjectLocationVariableResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/projectvariables/WorkspaceParentLocationVariableResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/projectvariables/ParentVariableResolver.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/projectvariables/EclipseHomeProjectVariable.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DocCommentParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/JavaSearchPattern.java
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*   IBM Corporation - added constant AccDefault
*   IBM Corporation - added constants AccBridge and AccVarargs for J2SE 1.5
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/Flags.java

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IBundleGroupProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IBundleGroup.java
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* Francis Lynch (Wind River) - [301563] Save and load tree snapshots
* Broadcom Corporation - build configurations and references
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*/
/**
  * Return the certificates for the signers of this bundle and the
  * certificate chains for those signers.
  *
  * @param signersType If {@link #SIGNERS_ALL} is specified, then information
  *   on all signers of this bundle is returned. If

```
 *       {@link #SIGNERS_TRUSTED} is specified,
then only information on
 *       the signers of this bundle trusted by the framework is returned.
 * @return The {@code X509Certificate}s for the signers of this bundle and
 *       the {@code X509Certificate} chains for those signers. The keys of
 *       the {@code Map} are the {@code X509Certificate}s of the signers
 *       of this bundle. The value for a key is a {@code List} containing
 *       the {@code X509Certificate} chain for the signer. The first item
 *       in the {@code List} is the signer's {@code X509Certificate} which
 *       is then followed by the rest of the {@code X509Certificate}
 *       chain. The returned {@code Map} will be empty if there are no
 *       signers. The returned {@code Map} is the property of the caller
 *       who is free to modify it.
 * @throws IllegalArgumentException If the specified {@code signersType} is
 *       not {@link #SIGNERS_ALL} or {@link #SIGNERS_TRUSTED}.
 * @since 1.5
 */
```

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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/Bundle.java
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*     Terry Parker - Bug 457504, Publish a job group's final status to IJobChangeListeners
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/IJobChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/JobChangeEvent.java
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*     Stephan Herrmann - Contributions for
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make
 the null analysis consider JUnit's assertNotNull similarly to assertions
*         Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*         Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*         Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*         Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*         bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                         Bug 405104 - [1.8][compiler][codegen]
 Implement support for serializeable lambdas
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
```

* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
***/

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*   IBM Corporation - initial API and implementation
*   Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaCorePreferenceInitializer.java
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*   Martin Oberhuber (Wind River) - [294429] Avoid substring baggage in FileInfo
*   Martin Lippert (VMware) - [394607] Poor performance when using findFilesForLocationURI
*   Sergey Prigogin (Google) - [433061] Deletion of project follows symbolic links
*   [464072] Refresh on Access ignored during text search
*   Andrey Loskutov (loskutov@gmx.de) - [500306] Read-only files, and projects containing them, cannot be deleted
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/LocalFile.java
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* Contributors:
*     Mik Kersten     initial implementation
*    Andy Clement     incremental support and switch on/off state
```

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/spi/IDynamicExtensionRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/TextMessages.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IRegistryEventListener.java

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*   Thomas Wolf - Bug 545252: improved search performance for multiple delimiters
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/OR_OR_Expression.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CancelableProblemFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceMethodInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/VerificationInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ConfigurationElementHandle.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentTypeManager.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeVisibleParameterAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeVisibleAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/ContentType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/urlconversion/URLConverter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/BaseExtensionHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ILocalVariableTypeTableAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ISignatureAttribute.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeInvisibleAnnotationsAttribute.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NodeEventHandler.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMarkerAnnotationName.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/Annotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ParameterAnnotation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeInvisibleParameterAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeVisibleAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/BaseExtensionPointHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/ILocalVariableTypeTableEntry.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeInvisibleParameterAnnotationsAttribute.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceConstructorInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeInvisibleAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/XMLRootElementContentDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/AnnotationComponent.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnAnnotationOfType.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/CompletionRequestorWrapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IEnclosingMethodAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/LocalVariableTypeAttribute.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IAnnotation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnNameOfMemberValuePair.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IParameterAnnotation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeVisibleParameterAnnotationsAttribute.java
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*   alex.panchenko@gmail.com - Bug 470535 - Bug in UserLibrary.hashCode()
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithAnnotations.java
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*   Mik Kersten   port to AspectJ 1.1+ code base
* **/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/HtmlDecorator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/StubFileGenerator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/Config.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/Main.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/JavadocRunner.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/Wire.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/Resource.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/BundleWire.java
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ArrayQualifiedTypeReference.java
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*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406973 - [compiler] Parse MethodParameters attribute
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/AttributeNamesConstants.java
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*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*   bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*   Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*   Jesper Steen Moller -
 Contributions for
*   bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryTimestamp.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/BitMask.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryProviderFactory.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryIndexElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ModelStatus.java
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*            Bug 320841 - TypeConverters don't set enclosingType
*            Bug 353474 - type converters should include more annotations
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ResourceDeltaFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ResourceDeltaInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SafeFileTable.java
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 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/IsSynchronizedVisitor.java
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*                        Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*        Stephan Herrmann - Contribution for
*       Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
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*     Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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jar/org/aspectj/org/eclipse/jdt/internal/formatter/linewrap/CommentWrapExecutor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/formatter/linewrap/Aligner.java
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*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*        Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/CharArrayHashMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/CharArrayMapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/CharDelegateMap.java
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*   Sebastian Davids: sdavids@gmx.de - see bug 25376
*   Jeremie Bresson <jbr@bsiag.com> - Allow to specify format for date variable - https://bugs.eclipse.org/75981
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 486903, 487327, 487901
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/EquinoxBundle.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/EquinoxEventPublisher.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleContainer.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/BundleInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/EquinoxContainerAdaptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/container/Capabilities.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleContainerAdaptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleDatabase.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/builders/OSGiManifestBuilderFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleWiring.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/DTOBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/container/InternalUtils.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleRevisionBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/OSGiFrameworkHooks.java

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/WorkspaceDescriptionReader.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/WorkspacePreferences.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ProjectInfo.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/ObjectMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SyncInfoReader_2.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerTypeDefinitionCache.java

* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/PathVariableManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/Container.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ProjectNatureDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ResourceChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/NatureManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SyncInfoReader_3.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/WorkManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/ElementTree.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerAttributeMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/Synchronizer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/SyncInfoSnapReader_3.java
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*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 404728 - [1.8]NPE on QualifiedSuperReference error
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*   Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
*   Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing
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*     IBM Corporation - initial API and implementation
*     Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -
https://bugs.eclipse.org/421165
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/TableWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/location/BasicLocation.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/messages/Msg.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CancelableNameEnvironment.java
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*   Sergey Prigogin (Google) - use parameterized types (bug 442021)
*   Christoph Laeubrich - Bug 567344 - Support registration of IAdapterFactory as OSGi Service
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/internal/RelationshipMap.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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*       bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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*     Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*       Bug 407191 - [1.8] Binary access support for type annotations
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/filesystem/IFileTree.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ResolvedTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ResolvedType.java
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*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 265744 - Enum switch should warn about missing default
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 ***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/SwitchStatement.java
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*   Adrian Colyer   Initial implementation
*   Helen Hawkins         bug 166580 and 148190
* ******************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/core/IOutputLocationManager.java
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*     IBM Corporation - initial API and implementation
*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
*     Christoph Laeubrich - Bug 567344 - Support registration of IAdapterFactory as OSGi Service
*******************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/Activator.java
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*     Martin Lippert     initial implementation
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*     Stefan Winkler - Bug 223492: Set current job name as thread name
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/Worker.java
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CombinedBinaryExpression.java
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```

```
*      Jesper Steen Møller - Contributions for
*                         bug 529552 - [18.3] Add 'var' in completions
**********************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/Keywords.java
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*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ResourceMapping.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/Bucket.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/CharsetDeltaJob.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ResourceTraversal.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnnotationTypeMemberDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodRefParameter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodRef.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnnotationTypeDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TextElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MemberRef.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ChildPropertyDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ChildListPropertyDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/rewrite/ListRewrite.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/BundleResourceHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/StructuralPropertyDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/AuthorizationHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/LineComment.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/InternalASTRewrite.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/DataArea.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/BundleEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/BundleURLConverter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/WeakHashSetOfCharArray.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SimplePropertyDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/BundleURLConnection.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BlockComment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/WeakHashSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/location/Locker.java
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*   bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with
 generics (RuntimeException instead of IOException)
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ThrowStatement.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PatternInstanceofExpression.java
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*   Stephan Herrmann - Contribution for
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ExpressionContext.java
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* Contributors:
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/formatter/TextEditsBuilder.java
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*/
/**
  * Framework launching property specifying the persistent storage area used
  * by the framework. The value of this property must be a valid file path in
  * the file system to a directory. If the specified directory does not exist

```
 * then the framework will create the directory. If the specified
path
 * exists but is not a directory or if the framework fails to create the
 * storage directory, then framework initialization must fail. The framework
 * is free to use this directory as it sees fit. This area can not be shared
 * with anything else.
 * <p>
 * If this property is not set, the framework should use a reasonable
 * platform default for the persistent storage area.
 *
 * @since 1.5
 */
/**
 * Intent supported by Remote Service implementation that provide
 * confidential communications as defined for the {@code osgi.confidential}
 * intent.
 *
 * @since 1.9
 */
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/Constants.java
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*    Andy Clement     initial implementation
*    Heavily based on LocalVariableTable
* ********************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/log/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/permissionadmin/package-info.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/url/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/util/tracker/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/weaving/WeavingException.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/resolver/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/condpermadmin/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/startlevel/package-info.java
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*   Jesper Steen Moller - Contributions for
*   bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*   Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519
*   Mateusz Matela <mateusz.matela@gmail.com>
 - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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*  Contributors:
*     IBM Corporation - initial API and implementation
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Sergey Prigogin (Google) - [462440] IFile#getContents methods should specify the status codes for its
exceptions
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/TraceFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Traceable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Jdk14Trace.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/Trace.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/IMessageContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/CommonsTrace.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/DefaultTraceFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/CommonsTraceFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/AbstractTrace.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/ISupportsMessageContext.java
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*   Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it
 extends the outer class
**********/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/NestedTypeBinding.java
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*   Hannes Wellmann - Bug 573025 & 573026: introduce and apply NamespaceList.Builder
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/container/NamespaceList.java
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**********************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ProblemReferenceBinding.java
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*     Stephan Herrmann - Contribution for
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IClasspathAttribute.java
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*     Sergey Stupin - contributions for adding annotation processing support to ajc
*******************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/AjBatchFilerImpl.java

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*     Stephan Herrmann - Contributions for
*         bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot
be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*         Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null]
 Follow-up re null type annotations after bug 392099
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 434600 - Incorrect null analysis error reporting on type parameters
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/model/BinaryTypeDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/model/BinaryTypeFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/BinaryTypeFormatter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/UnindexedSearchScope.java
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*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ModelProviderDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ModelProviderManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ModelProvider.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ResourceModelProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ProjectContentTypes.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/CompositeResourceMapping.java
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ProblemMethodBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/WorkspaceRoot.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerDelta.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/SecurityAdmin.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TypeConverter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/SourceElementNotifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/launch/Equinox.java
*
 /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/CompletionUnitStructureRequestor.java
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*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions
**********/

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*   bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
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 in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/LocalTypeBinding.java
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*    Alex Vasseur    wired up for @AJ proceeding
*    Andy Clement 23-06-06 added extras for @AJ
* ********************************************************************/
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* Contributors:
*    mkaufman@bea.com - initial API as ICompilationParticipant
*    IBM - changed from interface ICompilationParticipant to abstract class CompilationParticipant
*    IBM - rewrote specification
*
*******************************************************************************/
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*     Stephan Wahlbrink  - Fix for bug 200997.
*     Danail Nachev - Fix for bug 109898
*     Mike Moreaty - Fix for bug 289790
*     Oracle Corporation - Fix for bug 316839
*     Thirumala Reddy Mutchukota (thirumala@google.com) -
*             Bug 432049, JobGroup API and implementation
*             Bug 105821, Support for Job#join with timeout and progress monitor
*     Jan Koehnlein - Fix for bug 60964 (454698)
*     Terry Parker - Bug
 457504, Publish a job group's final status to IJobChangeListeners
*     Xored Software Inc - Fix for bug 550738
*     Christoph Laeubrich - remove deprecated API
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*        Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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*   Mickael Istria (Red Hat Inc.) - [263316] regexp for file association
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*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*         Bug 425783 - An
 internal error occurred during: "Requesting Java AST from selection". java.lang.StackOverflowError
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/FieldInitsFakingFlowContext.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/AnnotationMethodInfoWithTypeAnnotations.java
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*   Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
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*   Vladimir Piskarev <pisv@1c.ru> - Thread safety of OpenableElementInfo - https://bugs.eclipse.org/450490
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedAllocationExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DeletedNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/RefreshLocalAliasVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/StringLiteral.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/NoDataDeltaNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DataTreeNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/AndLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DataDeltaNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SingleVariableDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DataTree.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/TypeVector.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DeltaDataTree.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/SuperTypeReferenceLocator.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/PlatformURLResourceConnection.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/KeyedHashSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/SafeChunkyInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ArrayType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaCorePreferenceModifyListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/SearchDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ConstructorPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IFileModificationValidator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/OrLocator.java
*

/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ResourceException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/NodeComparison.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MethodPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/WrappedRuntimeException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ModelObject.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/DelayedSnapshotJob.java
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*   PARC   initial implementation
*   RonBodkin/AndyClement optimizations for memory consumption/speed
* **/

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 292478 - Report potentially null across variable assignment
*   bug 332637 - Dead Code detection removing code that isn't dead
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerTypeWithin.java
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*   Stephan Herrmann - Contribution for
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 370930 - NonNull annotation not considered for enhanced for loops
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 393719 - [compiler] inconsistent warnings
 on iteration variables
*   Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Jesper S Moller - Contribution for
*   bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*   bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/messages.properties
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*   James Blackburn (Broadcom Corp.) - Custom trigger builder #equals
*   Broadcom Corporation - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/UnresolvedAnnotationBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Block.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/RewriteEventStore.java
*
 /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeyword1.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ParenthesizedExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PrefixExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/VariableDeclarationFragment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BatchInitializationMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ForStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/SiblingEnumeration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ArrayInitializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/ManifestAnalyzer.java
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeyword.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/ChildDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/ListRewriteEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NumberLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ConditionalExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/SourceModifier.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ThrowStatement.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/OverflowingLRUCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Javadoc.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/EnumConstantDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredLocalVariable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/IndexAllProject.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CopyElementsOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IfStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/QualifiedName.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodInvocation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/LineCommentEndOffsets.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ThisExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/InternalNamingConventions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/LRUCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IAccessRule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ExpressionStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/FieldDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/CorrectionEngine.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/formatter/old/CodeFormatter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Assignment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NullLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/EnumDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ASTHolderCUInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PostfixExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/DefaultErrorHandlingPolicies.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Initializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/DocumentElementParser.java
* /aspectjtools-1-9-8-sources-1-
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/WhileStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/JavaSearchScope.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/Openable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ModelUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateFieldOperation.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnonymousClassDeclaration.java

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/EnhancedForStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NodeFinder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SuperConstructorInvocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SetVariablesOperation.java
* /aspectjtools-1-9-8-sources-1-
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/CastExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PackageDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/InfixExpression.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BufferCache.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreatePackageFragmentOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SynchronizedStatement.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/GenericXMLWriter.java
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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SuperFieldAccess.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/DOMType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/NodeInfoStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/DOMNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/eval/EvaluationContextWrapper.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMessageSend.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeyword2.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/VariableDeclarationStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/CompilerStats.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/PathCollector.java
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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SuperMethodInvocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ReturnStatement.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/IErrorHandlingPolicy.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BufferManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/AbstractDOMBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PrimitiveType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BooleanLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/DOMBuilder.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Receiver.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ReconcileWorkingCopyOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DoStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/LabeledStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaElementRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateMethodOperation.java
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*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/team/ResourceRuleFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/refresh/PollingMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/refresh/MonitorManager.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/StringPool.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/Rules.java
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*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocQualifiedTypeReference.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/FieldReferenceMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/InvalidInputException.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/TypedRegion.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/DeclarationOfReferencedMethodsPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IRepairableDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/FragmentUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEditGroup.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/AbstractSearchScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/EditDocument.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/CopyPackageFragmentRootOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/processing/IJob.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnSingleNameReference.java
*
 /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedAllocationExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/BuildNotifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IImportContainer.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnSingleNameReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/Position.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/Template.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/ObjectVector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IRegion.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/Region.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/NonJavaResource.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMImport.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/TypedPosition.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/LocalVariablePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DeleteResourceElementsOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaModelStatus.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IParent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DocumentEvent.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MultiTypeDeclarationPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/AbstractJavaSearchScope.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnSingleTypeReference.java
*
/aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/UserLibraryClasspathContainerInitializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/CharArrayCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/Segment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/UserLibraryClasspathContainer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/eval/IGlobalVariable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IInitializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DocumentRewriteSessionType.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/DeclarationOfAccessedFieldsPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/VariableLocator.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/Initializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/UndoEdit.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreatePackageDeclarationOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateInitializerOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/GapTextStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/LinkedModeManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEditMessages.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceRefElement.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/TypeParameterPattern.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMCompilationUnit.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnMemberAccess.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/VerificationTypeInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/ProjectionDocumentEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/OrPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TextTemplateMessages.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ImageBuilderInternalException.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedNameReference.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnQualifiedNameReference.java
*

/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ResourceChangeListenerList.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ReferenceInfoAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/UndoCollector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ElementChangedEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/team/IResourceTree.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/ChildDocumentManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/VariablePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/DOMFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/AndPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMFactory.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/IndexRequest.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/adapter/AdapterManagerListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DefaultLineTracker.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/MovePackageFragmentRootOperation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/TypeDeclarationPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentExtension4.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMPackage.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/Fragment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMInitializer.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/BranchLabel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateTypeOperation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/SuperTypeReferencePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/SubTypeSearchJob.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateBuffer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMMember.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/InclusivePositionUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PossibleMatchSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/jdom/IDOMMethod.java
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*     IBM Corporation - ongoing development
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ProjectPathVariableManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/FilterTypeManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/unix/UnixFileFlags.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/unix/StructStat.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Gunnar Wagenknecht <gunnar@wagenknecht.org> - Fix for bug 265445
*     Benjamin Cabe <benjamin.cabe@anyware-tech.com> - Fix for bug 265532
*     Lars Vogel<Lars.Vogel@vogella.com> - Bug 478768
**********************************************************************************/
/**
  * Returns the location of the platform working directory.
```

```
 * <p>
 * Callers of this method should consider using <code>getInstanceLocation</code>
 * instead.  In
various, typically non IDE-related configurations of Eclipse, the platform
 * working directory may not be on the local file system.  As such, the more general
 * form of this location is as a URL.
 * </p><p>
 * Alternatively, instead of calling <code>getInstanceLocation</code> clients are
 * able to acquire the {@link Location} service (with the type {@link Location#INSTANCE_FILTER})
 * and then change the resulting URL to a path. See the javadoc for <code>getInstanceLocation</code>
 * for more details.
 * </p>
 * @return the location of the platform
 * @see #getInstanceLocation()
 */
```

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/Platform.java
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* Contributors:
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*
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -
https://bugs.eclipse.org/421165
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModel.java
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*   Josh Arnold - Bug 180080 Equinox Application Admin spec violations
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* Contributors:
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* **/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseResolvedMember.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseAnnotationConvertor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/AbstractCompilerAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/IfFinder.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/AtAjAttributes.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclarePrecedence.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/After.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/ProceedingJoinPoint.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/Around.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/Before.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/Aspect.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/Pointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/AfterThrowing.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 478685, 478864, 479849
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/Adapters.java
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*     Serge Beauchamp (Freescale Semiconductor) - [252996] add addFilter/removeFilter/getFilters
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*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnParameterizedQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocImplicitTypeReference.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnParameterizedSingleTypeReference.java
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*   David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125
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*   Andy Clement   Extensions for better IDE representation
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/ContextTypeRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/HandleFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/LabeledStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaModelStatusConstants.java
*

/aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/TemplateReaderWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ExtensionsParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PossibleMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SimpleType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IConstantPoolConstant.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/CompilationUnit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/AddJarFileToIndex.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/Substitution.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/JavaSearchParticipant.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IConstantPool.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/Index.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/BatchImageBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IConstantPoolEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/TextTemplateMessages.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/DiskIndex.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/IScanner.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/TemplateStoreCore.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnLocalName.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/DefaultProblem.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ClasspathSourceDirectory.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ConstantPool.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/ITypeRequestor.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/IndexBasedHierarchyBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/DefaultBytecodeVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DeltaProcessingState.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/TemplatePersistenceData.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarPackageFragmentRootInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/util/KeyedElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SimpleName.java
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*   bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*   bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*   bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtytpe
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement
 code generation infrastructure for JSR335
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
*   Olivier Tardieu (tardieu@us.ibm.com) - Contributions for
*   Bug 442418 - $deserializeLambda$ off-by-one error when deserializing the captured arguments
 of a lambda that also capture this
**/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/CodeStream.java
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Jesper Steen Moller - Contributions for
*   Bug 406973 - [compiler] Parse MethodParameters attribute

**********/

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jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/IndexNamesRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DynamicProjectReferences.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelConstantPoolReader.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ConstantPoolWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/EclipseConstantPoolWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ConstantPoolReader.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelConstantPoolWriter.java
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*   het@google.com - Bug 441790
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*   Lars Vogel <Lars.Vogel@gmail.com> - Adds generic type arguments https://bugs.eclipse.org/412836
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*       Bug 415790
 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
**********************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ForStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
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*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*     Mickael Istria (Red Hat Inc.) - Bug 488937
*     Mikael Barbero (Eclipse Foundation) - 286681 handle WAIT_ABANDONED_0 return value
*******************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/refresh/win32/Win32Monitor.java
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*     Theodora Yeung (tyeung@bea.com) - ensure that JarPackageFragmentRoot make it into cache
*                                       before its contents
*                                       (see https://bugs.eclipse.org/bugs/show_bug.cgi?id=102422)
*     Stephan Herrmann - Contributions for
*        Bug 346010 - [model] strange initialization dependency in OptionTests
*        Bug 440477 - [null] Infrastructure
 for feeding external annotations into compilation
*     Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see
https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425
*     Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug:
https://bugs.eclipse.org/bugs/show_bug.cgi?id=411423
*     Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -
https://bugs.eclipse.org/421165
*     Terry Parker <tparker@google.com> - Enable the Java model caches to recover from IO errors -
https://bugs.eclipse.org/455042
*     Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
*     Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/FlatFileCacheBacking.java
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*   James Blackburn (Broadcom Corp.) - Bug 311863 Ordered Lock lost after interrupt
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/Proceed.java

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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/bundle/EventHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/weaving/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/resolver/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/package-info.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/service/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/service/EventListenerHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/bundle/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/weaving/WovenClass.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/BundleStartLevel.java

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*     IBM Corporation - initial API and implementation
*     Terry Parker <tparker@google.com> - DeltaProcessor exhibits O(N^2) behavior, see
https://bugs.eclipse.org/bugs/show_bug.cgi?id=354332
*     Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see
https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425
*     Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches -
https://bugs.eclipse.org/421165
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DeltaProcessor.java
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*          bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 403147 - [compiler][null] FUP of bug 400761:
 consolidate interaction between unboxing, NPE, and deferred checking
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/IfStatement.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/VersionConstraint.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/ProgressProvider.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/VersionRange.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/BundleDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/url/NullURLStreamHandlerService.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/console/CommandInterpreter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/StateDelta.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/IJobChangeListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/State.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/FilteredServiceListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/ImportPackageSpecification.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/IJobManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/reference/ReferenceURLConnection.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/url/URLStreamHandlerSetter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/pluginconversion/PluginConverter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/BundleDelta.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/StateObjectFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/HostSpecification.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/ExportPackageDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/BundleSpecification.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/reference/Handler.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/ResolverError.java
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*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208
*   IBM Corporation - DOM AST changes for JEP 354
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/PackageFragmentRootInfo.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarEntryFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/AbstractDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/IndexManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MatchingNodeSet.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/RegionBasedTypeHierarchy.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetEnvironment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IOpenable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AnnotatableType.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnMessageSend.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/ISelectionRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelInfo.java
* /aspectjtools-1-9-8-sources-1-
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/Region.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/SuffixConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/Policy.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/CompilationUnit.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IEclipseSourceContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareParentsDeclaration.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AjAST.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareAnnotationDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclarePrecedenceDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareWarningDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareAtTypeDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareErrorDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareAtFieldDeclaration.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DeclareAtConstructorDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IMethodParametersAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/MethodParametersAttribute.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExactAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutPrimitive.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationPatternList.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/StandardPointcutExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/PointcutExpressionImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/TypePatternMatcherImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithinAnnotationPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/OrAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WildAnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotatedElement.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithinCodeAnnotationPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ThisOrTargetAnnotationPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PointcutEvaluationExpenseComparator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/StandardPointcutExpressionImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/TypePatternMatcher.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PointcutRewriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnnotationPointcut.java
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*       bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*       bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
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*   Perry James - nullStatus method improvement (165346)
*   Stephan Herrmann - Contribution for
*   bug 383368 - [compiler][null] syntactic null analysis for field references
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*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests
 can cope with null annotations enabled
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*   Bug 434600 - Incorrect null analysis error reporting on type parameters
*   Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*   Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

```
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*       Jesper S Møller <jesper@selskabet.org> -  Contributions for
*                       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*                       bug 529556 - [18.3] Add content assist support for 'var' as a type
*
**********************************************************************************/
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in path(s):
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*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 478864
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IAdaptable.java
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* Andy Clement, SpringSource
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/BasicModule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ModulePathContainerInitializer.java
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*   Tom Tromey - Contribution for bug 159641
*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 295551 - Add option to automatically promote all warnings to errors
*   bug 359721 - [options] add command line option
 for new warning token "resource"
*   bug 365208 - [compiler][batch] command line options for annotation based null analysis
*   bug 374605 - Unreasonable warning for enum-based switch statements
*   bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Bug 408815 - [batch][null] Add CLI option for
COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
*   Jesper S Moller   - Contributions for
*   bug 407297 - [1.8][compiler] Control generation of parameter names by option
*   Mat Booth - Contribution for bug 405176
*   Frits Jalvingh -
 fix for bug 533830.
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*   Danail Nachev - exception handling for registry listeners (bug 188369)
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/Capability.java
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*   Linton Ye https://bugs.eclipse.org/bugs/show_bug.cgi?id=193065
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnAnnotationMemberValuePair.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ClasspathAttribute.java

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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/TypeParameterDeclarationMatch.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnStringLiteral.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/spi/ConfigurationElementAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/IRegistryConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/IModelProviderDescriptor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DocumentAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/TypeParameterReferenceMatch.java
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jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnBreakStatement.java
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*     salesforce.com - limit number of sleeping worker threads
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*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
**/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AbstractVariableDeclaration.java
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*   Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*   Stephan Herrmann - Contributions for
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903
 - Filter practically unimportant resource leak warnings
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 379784 - [compiler] "Method can be static" is not getting reported
*   bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*   bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*   bug 331649 - [compiler][null] consider null annotations
 for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

```
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*       Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
 *       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 427483 - [Java 8] Variables in lambdas
 sometimes can't be resolved
*       Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*       Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*       Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*       Bug
 470958 - [1.8] Unable to convert lambda
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
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*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
 ***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CompoundAssignment.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/TableReader.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/internal/app/ProductExtensionBranding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TryStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/CompilationResult.java
*

/aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/QualifiedTypeDeclarationPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IPackageBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ICompilationUnit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JarPackageFragment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/JavaElementFinder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IClassFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IPackageFragment.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/RegionBasedHierarchyBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/PackageFragment.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredUnit.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/SuperTypeNamesCollector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredElement.java
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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/NameEnvironmentAnswer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/PackageBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ConstantPoolEntry2.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/ClasspathLocation.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ClassLiteralAccess.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/Convert.java
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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/TypeHierarchy.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*         bug 365519 - editorial cleanup after bug 186342
 and bug 365387
*         bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*         bug 366063 - Compiler should not add synthetic @NonNull annotations
*         bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*         bug 386356 - Type mismatch error with annotations and generics
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 331649 - [compiler][null] consider null annotations for fields
*         bug 380896 - [compiler][null] Enum constants not recognised as being NonNull.
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
 *         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*         Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*         Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*         Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 441693 - [1.8][null]
 Bogus warning for type argument annotated with @NonNull
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*         Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Jesper S Moller <jesper@selskabet.org> -  Contributions for
*         Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       Till Brychcy - Contributions for
*           bug 415269 - NonNullByDefault is not always inherited to nested classes
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*       Sebastian Zarnekow - Contributions
 for
*         bug 544921 - [performance] Poor performance with large source files
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*         Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/unix/UnixFileHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/LocalFileHandler.java
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*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427, 483862
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* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
**********/

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   Bug 378674 - "The method can be declared as static" is wrong
*   Robert Roth <robert.roth.off@gmail.com> - Contributions for
*   Bug 361039 - NPE in FieldReference.optimizedBooleanConstant
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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*   Markus Schorn (Wind River) - [108066] Project prefs marked dirty on read
*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427, 483529
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/runnable/ApplicationLauncher.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/StackMapFrame.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/VirtualFileSystem.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IContributor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/undo/IDocumentUndoManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/undo/UndoMessages.java
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*   Jesper S Moller - Contribution for bug 402173
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly,
especially when max line width is set - https://bugs.eclipse.org/303519
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*     Kelly Campbell <kellyc@google.com> - Hangs in SourceMapper during java proposals -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=281575
*     Stephan Herrmann - Contribution for Bug 380048 - error popup when navigating to source files
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*     Martin Oberhuber (Wind River) - [44107] Add symbolic links to ResourceAttributes API
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Sergey Prigogin (Google) - ongoing development
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*     Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 417295 - [1.8[[null] Massage type annotated
 null analysis to gel well with deep encoded type bindings.
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ParameterizedMethodBinding.java
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```
*
*  Contributors:
*     IBM Corporation - initial API and implementation
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
**********************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IPathVariableManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/ASTRewriteFormatter.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/InternalBuilder.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/Assert.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/ISafeRunnable.java
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************/
```

Found
 in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 417295 - [1.8[[null]
 Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/InstanceOfExpression.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/BundleContextImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/util/SecureAction.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/sources/NullPackageSource.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceRegistrationImpl.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/legacy/PackageAdminImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceFactoryUse.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/FilterImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/eventmgr/EventManager.java
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*   Brock Janiczak   - Contribution for bug 150741
*   Ray V. (voidstar@gmail.com) - Contribution for bug 282988
*   Jesper S Moller - Contribution for bug 402173
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
***/

Found in path(s):
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/formatter/DefaultCodeFormatterConstants.java
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*     Danail Nachev (Prosyst) - bug 185654
*     Andrei Loskutov - bug 44735
*******************************************************************************/
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* Mickael Istria (Red Hat Inc.) - [263316] regexp for file association
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IRegistryChangeEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/environment/EnvironmentInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IExtensionDelta.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEditCopier.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DocumentRewriteSessionEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DocumentPartitioningChangedEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/SegmentUpdater.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/Annotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/DocumentTemplateContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitioningListenerExtension2.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ImportMatchLocatorParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateVariableResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/LinkedPosition.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/TextEditVisitor.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocArraySingleTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentExtension.java
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*   Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*   Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability
analysis
*   Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief

```
*     Till Brychcy - Contribution for
*       Bug 473713
 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************/
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
    E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
    needed for correctness, but for annotated object reuse. We provide two alternate ways to
    annotate a type:

    Taking parameterized types as an example, a call to getParamaterizedType can be made with annotations
    to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
    and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
    the key, in the latter with List<String> as the key.

    Binary vs source, substitutions, annotation re-attribution from SE7 locations etc trigger these
    alternate code paths. Unless care is exercised,
 we will end up with duplicate objects (that share
    the same TypeBinding.id => correctness is not an issue, but memory wastage is)
  */
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/TypeSystem.java
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*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ResourceChangeValidator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ChangeDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ProposedResourceDelta.java
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*   Andy Clement - June 2005 - separated out from ResolvedType
* **/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ReferenceType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ReferenceTypeDelegate.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AbstractReferenceTypeDelegate.java
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*   Serge Beauchamp (Freescale Semiconductor) - [229633] Group Support
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*   Stephan Herrmann - Contribution for
*   Bug 365992 - [builder] [null] Change of nullness for a parameter doesn't trigger a build for the files that call the method
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 440687 - [compiler][batch][null] improve command line option for external annotations
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*
            bug 407191 - [1.8] Binary access support for type annotations
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/team/FileModificationValidationContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/NullBuffer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/osgi/ExtensionEventDispatcherJob.java
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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contribution for bug 185682 - Increment/decrement operators mark local variables as read
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/PackageVisibilityStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnModuleDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ModuleReference.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnModuleReference.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/propertytester/StringMatcher.java
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*  Martin Oberhuber (Wind River) - [170317] add symbolic link support to API
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/IndexQualifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/MetaIndex.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IModularClassFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IOrdinaryClassFile.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/model/BinaryModuleDescriptor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ModuleInfoBuilder.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/nd/java/model/BinaryModuleFactory.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/PrimitiveTypeImpl.java
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*          bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject
 into account
*        bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*        Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*        Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                        bug 386692 - Missing "unused" warning on "autowired" fields
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
*                        bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
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*     Oakland Software Incorporated - added getSessionProperties and getPersistentProperties
*     Serge Beauchamp (Freescale Semiconductor) - [252996] add hasFilters()
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ExportsDirective.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/RequiresDirective.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ModuleDirective.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ProvidesDirective.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/UsesDirective.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/OpensDirective.java
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*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*         Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container
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*     Andy Clement  6Jul05 generics - signature attribute
*     Abraham Nevado
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*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
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* Contributors:
*     Stephan Herrmann - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - TypeConverters don't set enclosingType -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=320841
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*     Serge Beauchamp (Freescale Semiconductor) - initial API and implementation
*     IBM Corporation - ongoing implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/InvalidRegistryObjectException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/TextContentDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/XMLRootHandler.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/AnnotationInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceAnnotationMethodInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/LazyInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/Handle.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/BinarySignatureDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/rewrite/ITrackedNodePosition.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/dynamichelpers/IExtensionTracker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/DefaultStackMapFrame.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/AnnotationComponentValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ResolvedSourceMethod.java
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*   Adrian Colyer            refactoring for traversal and grouping by kind
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*        Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Initializer.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/LockSignatureImpl.java
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* Contributors:
*   Xerox/PARC   initial implementation
*   Alex Vasseur   new factory methods for variants of JP
* Abraham Nevado   new factory methods for collapsed SJPs
*   Andy Clement   new factory methods that rely on LDC <class>
* **/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/IElementComparator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ILineTrackerExtension.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentRewriteSessionListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DataTreeLookup.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitionerExtension3.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/KeyedHashSet.java

* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/ProjectionTextStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/IElementInfoFlattener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ITypedRegion.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/IMarkerSetElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitioningListenerExtension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/TestingSupport.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/TestHelper.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/SimpleTemplateVariableResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IPositionUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentExtension3.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/IComparator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitionerExtension2.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/BadLocationException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentInformationMapping.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/ILocalStoreConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/IPathRequestor.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationModelListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/NodeIDMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/DataTreeWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/link/ILinkedModeListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitioner.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/SlaveDocumentEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/BadPositionCategoryException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/IDataFlattener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/dtree/ObjectNotFoundException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/KeyedElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DocumentRewriteSession.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentInformationMappingExtension.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentInformationMappingExtension2.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitioningListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/ISourceModifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationModelListenerExtension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/projection/IMinimalMapping.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/ISlaveDocumentManagerExtension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IRegion.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/BadPartitioningException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/IUnifiedTreeVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/IManager.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentPartitionerExtension.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ILifecycleListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/ResourceStats.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/IElementContentVisitor.java

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*     Thirumala Reddy Mutchukota (thirumala@google.com) -
*       Bug 432049, JobGroup API and implementation
*       Bug 105821, Support for Job#join with timeout and progress monitor
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*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
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*   Martin Oberhuber (Wind River) - [105554] handle cyclic symbolic links
*   Martin Oberhuber (Wind River) - [232426] shared prefix histories for symlinks
*   Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*   Martin Oberhuber (Wind River) - [292267] OutOfMemoryError due to leak in UnifiedTree
*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the
 default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual
 resolution of ReferenceExpression is not seen to be happening.
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28

0)
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*   Till Brychcy - Contributions for
*   bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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*   Stephan Herrmann - Contribution for
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
 *   Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 458396 - NPE in CodeStream.invoke()
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/FrameworkExtensionInstaller.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/SystemBundleFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleResolutionReport.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/DirBundleFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/hookregistry/HookRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/NativeCodeFinder.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/service/security/AuthorizationEngine.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/EventAdminAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/buddy/PolicyHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/ModuleClassLoader.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/EquinoxClassLoader.java
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*   Palo Alto Research Center, Incorporated - AspectJ adaptation
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found
 when compiling the Eclipse SDK
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
*   Bug 458396 - NPE in CodeStream.invoke()
*   Jesper S Moller - Contributions for
*   bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*   Jesper S Moller <jesper@selskabet.org> - Contributions for

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*       bug 378674 - "The method can be declared as static" is wrong
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ShrinkableValueCollectionMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/weaving/DynamicImportList.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/util/ArrayMap.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/INameEnvironmentWithProgress.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeAnnos.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/ElementValue.java
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*     Stephan Herrmann - Contribution for
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/ModulePackages.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/namespace/HostNamespace.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/dto/DTO.java
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*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis

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*       Bug 458396 - NPE in CodeStream.invoke()
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/IExportedPreferences.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/AbstractPreferenceInitializer.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/BundleFile.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/IScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/InstanceScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/DefaultScope.java
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*   bug 332637 - Dead Code detection removing code that isn't dead

* bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleCollisionHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/legacy/StartLevelImpl.java
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*     Jesper Steen Møller <jesper@selskabet.org> - contributions for:
*         Bug 531046: [10] ICodeAssist#codeSelect support for 'var'
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/SelectionEngine.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionParser.java
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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/IPrivilegedHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/IAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/IMemberFinder.java
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*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
*     Markus Schorn (Wind River) - [306575] Save snapshot location with project
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*     Mickael Istria (Red Hat Inc.) - Bug 488937
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*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] IndexOutOfBoundsException in TokenManager - https://bugs.eclipse.org/462945
*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] follow up bug for comments - https://bugs.eclipse.org/458208
*   IBM Corporation - DOM AST changes for JEP 354
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/formatter/SpacePreparator.java
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*   Mateusz Matela <mateusz.matela@gmail.com> - [formatter] Formatter does not format Java code correctly, especially when max line width is set - https://bugs.eclipse.org/303519
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*        Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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*        bug 331649 - [compiler][null] consider null annotations for fields
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*     Jesper S Moller - Contributions for
*       bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
```

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*   bug 378674 - "The method can be declared as static" is wrong
*   Stephan Herrmann - Contribution for
*   Bug 424167 - [1.8] Fully integrate type inference with overload resolution
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*         bug 328281 - visibility leaks not detected when analyzing unused field in private class
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*   Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*   Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*   Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*   Andy
 Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*   Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* Martin Oberhuber (Wind River) - [170317] add symbolic link support to API
* Martin Oberhuber (Wind River) - [183137] liblocalfile for solaris-sparc
* Martin Oberhuber (Wind River) - [184433] liblocalfile for Linux x86_64
* Martin Oberhuber (Wind River) - [184534] get attributes from native lib
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocModuleReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/RestrictedIdentifiers.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/RecordComponent.java
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*           bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 395002 - Self bound generic class
 doesn't resolve bounds properly for wildcards for certain parametrisation.
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426792 - [1.8][inference][impl] generify new type inference engine
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*       Bug 431408 - Java 8 (1.8) generics bug
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug
 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*       Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*       Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
```

* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
* Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
* Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Bug 462790 - [null] NPE in Expression.computeConversion()
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/TypeVariableBinding.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Samrat Dhillon samrat.dhillon@gmail.com - Search for method references is
*             returning methods as overriden even if the superclass's method is
*             only package-visible - https://bugs.eclipse.org/357547
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MethodLocator.java
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*   Stephan Herrmann - Contributions for
*   bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*   bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 358903 - Filter practically unimportant resource
 leak warnings
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424727 - [compiler][null] NullPointerException in nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*   Bug 424710
 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*   Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*   Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*   Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*   Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*   Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*   Bug 427438 - [1.8][compiler] NPE at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
 *   Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*   Bug 434297 - [1.8] NPE in LamdaExpression.analyseCode with lamda expression nested in a conditional expression

*   Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*   Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler]
 Revive code generation support for type annotations (from Olivier's work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*   Till Brychcy - Contributions for
*   bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
**/

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*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   bug 185682 - Increment/decrement operators mark local variables as read
*   bug 331649 - [compiler][null] consider null annotations for fields
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 447088 - [null] @Nullable on fully qualified field type is ignored
*   Bug 435805 - [1.8][compiler][null]
 Java 8 compiler does not recognize declaration style null annotations
*   Bug 458396 - NPE in CodeStream.invoke()
*   Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
*   Till Brychcy - Contribution for
*   bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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```
*     Mickael Istria (Red Hat Inc.) - Bug 488938
*******************************************************************************/
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*         Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/VoidTypeBinding.java
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
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*     IBM Corporation - added support for requesting updates of a particular
*                       container for generic container operations.
*       - canUpdateClasspathContainer(IPath, IJavaProject)
*       - requestClasspathContainerUpdate(IPath, IJavaProject, IClasspathContainer)
*     IBM Corporation - allow initializers to provide a readable description
*                       of a container reference, ahead of actual resolution.
*
      - getDescription(IPath, IJavaProject)
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*         Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
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*         bug 383368 - [compiler][null] syntactic null analysis for field references
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/FileBundleEntry.java
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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - fix for 342598
*   IBM Corporation - Java 8 support
*   het@google.com - Bug 427943 - The method
org.aspectj.org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw
IllegalArgumentException
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*     Stephan Herrmann - contributions for
*          bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*          bug 186342 - [compiler][null] Using annotations for null checking
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*     Francis Lynch (Wind River) - [301563] Save and load tree snapshots
*     Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
*     Baltasar Belyavsky (Texas Instruments) - [361675] Order mismatch when saving/restoring workspace trees
```

*   Broadcom Corporation - ongoing development
*   Sergey Prigogin (Google) - [437005] Out-of-date .snap file prevents Eclipse from running
*   Lars Vogel <Lars.Vogel@vogella.com>
 - Bug 473427
*   Mickael Istria (Red Hat Inc.) - Bug 488937
**********/

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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
**********/

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*      Christoph Laeubrich - Bug 527175 - Storage#getSystemContent() should first make the file absolute
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
***/

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*   Stephan Herrmann - Contributions for
*   bug 349326 - [1.7] new warning for missing try-with-resources

* bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099
 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
* Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler]
 Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized type due to bound(s) mismatch
* Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
* Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
* Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
 * Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
* Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
**********/

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*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/runnable/ParameterizedRunnable.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/log/FrameworkLog.java
*

/aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/runnable/ApplicationRunnable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/TypeParameterElementInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/properties/IPropertyManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/XMLContentDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/localization/BundleLocalization.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/IHistoryStore.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/source/IAnnotationModelExtension2.java
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*   John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
*   Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*   Bug 473178
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/BufferedRandomInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentTypeMatcher.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/MetaDataKeeper.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/spi/ConfigurationElementDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryObjectFactory.java
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*   Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow - https://bugs.eclipse.org/443928
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*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/GenericDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/verifier/CertificateTrustAuthority.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/verifier/CertificateVerifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/verifier/CertificateChain.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/GenericSpecification.java
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*        Bug 186342 - [compiler][null] Using annotations for null checking
*        Bug 440474 - [null] textual encoding of external null annotations
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*         Bug 407191 - [1.8] Binary access support for type annotations
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*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*       bug 358903 - Filter practically unimportant resource leak warnings
*       bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*       bug 370639 - [compiler][resource]
 restore the default for resource leak warnings
*       bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*       bug 379784 - [compiler] "Method can be static" is not getting reported
*       bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*       Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*       Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream -
return inside for loop)
*       Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding
 with try-catch
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*       bug 378674 - "The method can be declared as static" is wrong
*     Keigo Imai - Contribution for  bug 388903 - Cannot extend inner class as an anonymous class when it extends
the outer class
********************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistSourceField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistSourceMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/BundlePermissions.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistTypeParameter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ReadManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistCompilationUnit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistInitializer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/internal/adaptor/ConsoleManager.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistPackageDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistImportContainer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/BundleFileWrapperChain.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistSourceType.java
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*   Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
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* Contributors:
*   mkaufman@bea.com - initial API and implementation
*   IBM - renamed from PreReconcileCompilationResult to ReconcileContext
*   IBM - rewrote spec
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/AnnotationAccessVar.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/sources/FilteredSourcePackage.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/ProjectScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IDocElement.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IExtendedModifier.java
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*     Stephan Herrmann - Contribution for
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/LabelFlowContext.java
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*     IBM Corporation - initial API and implementation
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 476403, 478769, 490586
*     Christoph Läubrich - remove reference to InternalPlatform.getDefault().log
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*          bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
*          bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
*       bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*       bug 368546 - [compiler][resource] Avoid
 remaining false positives found when compiling the Eclipse SDK
*       bug 383690 - [compiler] location of error re uninitialized final field should be aligned
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                       Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions
 for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/IResourceChangeDescriptionFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/UnresolvedReferenceNameFinder.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
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*   bug 393719 - [compiler] inconsistent warnings on iteration variables
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithTypeAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CompactConstructorDeclaration.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TextBlock.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/RecordAttribute.java
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*     Julian Chen - fix for bug #92572, jclRM
*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
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*     Stephen Herrmann <stephan@cs.tu-berlin.de> -  Contributions for
*         bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
*         bug 292478 - Report potentially null across variable assignment
*       bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
*       bug 354554 - [null] conditional with redundant condition
 yields weak error message
*         bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*       bug 383368 - [compiler][null] syntactic null analysis for field references
*       bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
*       Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
 *       Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ConditionalExpression.java

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*     Martin Oberhuber (Wind River) - [245937] setLinkLocation() detects non-change
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
*     Markus Schorn (Wind River) - [306575] Save snapshot location with project
*     Broadcom Corporation - build configurations and references
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/AdviceSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/InitializerSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/Signature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/SwingTreeViewNode.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/AbstractIcon.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/CodeSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/MessageHandler.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureViewRenderer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/CFlowStack.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/MessageUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/AdviceSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/BuildConfigManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/UserPreferencesAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/EditorManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/IMessage.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/IdeUIAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/CFlowPlusState.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/StringMaker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/StructureUtilities.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/ICommand.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/Message.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/ConstructorSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/ConstructorSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/JoinPointImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/MethodSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/Conversions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/EditorListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/BuildConfigNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/BuildConfigModel.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/NoAspectBoundException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/IMessageHolder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/LstBuildConfigFileParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/GlobalViewProperties.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/JoinPoint.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/IconRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/BrowserUIAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/ui/swing/TopFrame.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/IStructureViewNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/StructureViewTreeListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/InvalidResourceException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureViewProperties.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/AjdeWidgetStyles.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/ajc/ConfigParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/AbortException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/internal/BuildConfigListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/CountingMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/PartialOrder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/MethodSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/internal/NavigationHistoryModel.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/GlobalStructureView.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/SourceLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/FieldSignature.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/SourceLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/CFlow.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/MessageWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajbrowser/Main.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/internal/TreeStructureViewBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/SignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/MemberSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/ISourceLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/AbstractIconRegistry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/ErrorDialog.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/BuildConfigEditor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/MemberSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/CatchClauseSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/SourceLocationImpl.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/FieldSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/PerObjectMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureViewNodeFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/PointcutWizard.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/IMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/EditorAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/reflect/CatchClauseSignatureImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/FileUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/ReflectionFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/CodeSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/FileStructureView.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/StructureView.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajde/ui/swing/OptionsPanel.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/FuzzyBoolean.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

```
*       Jesper Steen Moeller - Contributions for:
*                       Bug 406973 - [compiler] Parse MethodParameters attribute
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/Disassembler.java
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* Contributors:
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* ******************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionFastMatchInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/CompilationResultDestinationManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/ILifecycleAware.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Benjamin Muskalla - Contribution for bug 239066
*     Stephan Herrmann  - Contributions for
*           bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*           bug 338303 - Warning about Redundant assignment conflicts with definite assignment
*       bug 349326 - [1.7] new warning for missing try-with-resources
*       bug 186342 - [compiler][null] Using annotations for null checking
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*       bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
*       bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*       bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
```

* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 376053 - [compiler][resource] Strange potential resource leak problems
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 393719 - [compiler] inconsistent warnings on iteration
variables
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared
abstract
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 382789 - [compiler][null] warn when syntactically-nonnull expression is compared against null
* bug 376590 - Private fields with @Inject are ignored by unused field validation
* bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
* bug 402028 - [1.8][compiler] null analysis for reference expressions
* bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
* bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug
392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first
field
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
* Bug 428294 - [1.8][compiler] Type mismatch: cannot convert
from List<Object> to Collection<Object[]>
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
* Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
* Bug 430150 - [1.8][null] stricter checking against type variables
* Bug 434600 - Incorrect null analysis error reporting on type parameters
* Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
* Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding
method _ due to incompatible nullness constraints"
* Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault
in package-info.java
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 455723 - Nonnull argument not correctly inferred in loop

```
*       Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*       Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
*     Jesper S Moller <jesper@selskabet.org> -  Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 382721 - [1.8][compiler] Effectively final variables needs
 special treatment
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*       bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*       bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*       Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*     Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
*                         bug 386692 - Missing "unused" warning on "autowired" fields
**********************************************************************************/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/ProblemReporter.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Sergey Prigogin (Google) - [464072] Refresh on Access ignored during text search
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/File.java
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*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*   Mickael Istria (Red Hat Inc.) - Bug 488937
***/

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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - inconsistent initialization of classpath container backed by external class folder, see https://bugs.eclipse.org/320618
*   Thirumala Reddy Mutchukota <thirumala@google.com> - Contribution to bug: https://bugs.eclipse.org/bugs/show_bug.cgi?id=411423
*   Terry Parker <tparker@google.com> - [performance] Low hit rates in JavaModel caches - https://bugs.eclipse.org/421165
*   Andrey Loskutov <loskutov@gmx.de>
 - ExternalFoldersManager.RefreshJob interrupts auto build job - https://bugs.eclipse.org/476059
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*   IBM Corporation - initial API and implementation
*   Jesper S Moller - Contributions for
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*   Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*   Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*   Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
"Invalid lambda deserialization"
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*     Christoph Laeubrich - adjust to new API
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*     Anton Leherbauer <anton.leherbauer@windriver.com> - [implementation]
AnnotationModel.fModificationStamp leaks annotations - http://bugs.eclipse.org/345715
*     Sebastian Zarnekow - [bug 401391] ConcurrentModificationException in
AnnotationModel.getAnnotationIterator
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/ExceptionInferenceFlowContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ResolvedLambdaExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryLambdaExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/XMLParsingServiceFactory.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/LambdaMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/PreferenceModifyListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryLambdaMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/container/EquinoxReentrantLock.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/LambdaFactory.java
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* Contributors:
*   Timo Kinnunen - Contributions for bug 377373 - [subwords] known limitations with JDT 3.8
*   Bug 420953 - [subwords] Constructors that don't match prefix not found
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete
suggestions
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*     Andy Clement - SpringSource/vmware
* ********************************************************************/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/AspectInstanceVar.java
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*        bug 292478 - Report potentially null across variable assignment,
*        bug 185682 - Increment/decrement operators mark local variables as read
*        bug 331649 - [compiler][null] consider null annotations for fields
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException:
 info cannot be null
*        Bug 458396 - NPE in CodeStream.invoke()
*        Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*     Jesper S Moller - <jesper@selskabet.org>   - Contributions for
*           bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*        bug 378674 - "The method can be declared as static" is wrong
*        bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*        bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/SingleNameReference.java
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*   Stephan Herrmann - Contribution for
*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/BindingKeyParser.java
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*   Bug 378674 - "The method can be declared as static" is wrong
*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetThisReference.java
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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contributions for

* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug
370639 - [compiler][resource] restore the default for resource leak warnings
* bug 366063 - Compiler should not add synthetic @NonNull annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
* bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
**********/

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in path(s):
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ModuleDescriptionInfo.java
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*   PARC   initial implementation
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/log/admin/LoggerAdmin.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/bundle/FindHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/resolver/ResolverHookFactory.java
*
/aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/bundle/CollisionHook.java
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/**
  * Returns the classpath entry that is making a reference to this classpath entry. For entry kinds
  * {@link #CPE_LIBRARY}, the return value is the entry that is representing the JAR that includes
  * <code>this</code> in the MANIFEST.MF file's Class-Path section. For entry kinds other than
```

```
 * {@link #CPE_LIBRARY}, this returns <code>null</code>. For those entries
that are on the raw classpath already,
 * this returns <code>null</code>.
 * <p>
 * It is possible that multiple library entries refer to the same entry
 * via the MANIFEST.MF file. In those cases, this method returns the first classpath entry
 * that appears in the raw classpath. However, this does not mean that the other referencing
 * entries do not relate to their referenced entries.
 * See {@link JavaCore#getReferencedClasspathEntries(IClasspathEntry, IJavaProject)} for
 * more details.
 * </p>
 *
 * @return the classpath entry that is referencing this entry or <code>null</code> if
 *   not applicable.
 * @since 3.6
 */
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IClasspathEntry.java
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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 387612 - Unreachable catch block...exception is never thrown from the try
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 401456 - Code compiles from javac/intellij, but fails from eclipse
*         bug 401271 - StackOverflowError
 when searching for a methods references
*         bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
*         Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the
interface type as the last parameter
*         Bug 413958 - Function override returning inherited Generic Type
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
```

```
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler]
 Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload
context
*       Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*       Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vargs argument
*       Bug 426590 - [1.8][compiler] Compiler error with tenary operator
*       Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*       Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments
(java.lang.Class, java.lang.String)
*       Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*       Bug
 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
*       Bug 427218 - [1.8][compiler] Verify error varargs + inference
*       Bug 426836 - [1.8] special handling for return type in references to method getClass()?
*       Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
*       Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*       Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
Bindings
*       Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*       Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*       Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner
 class
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*       Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite
@NonNullByDefault
*       Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
*     Jesper S Moller - Contributions for
*       Bug 378674 - "The method can be declared as static" is wrong
*        Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     Andy Clement (GoPivotal, Inc)
 aclement@gopivotal.com - Contributions for
*                       Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*     Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
*                         Bug 559618 - No compiler warning for import from same package
*                         Bug 560630 - No warning on unused import on class from same package
*******************************************************************************/
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*    philippe.marschall@netcetera.ch - Fix for 338370
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/OS.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/SourceElementRequestorAdapter.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IPackageDeclaration.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnPackageReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/ShortConstant.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ExternalPackageFragmentRoot.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/TypeNameMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ImportContainer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/AdditionalTypeCollection.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/TypeReferencePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ImportDeclarationElementInfo.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/EvaluationResult.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/DefaultPositionUpdater.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/EntryResult.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/GlobalVariable.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/AnnotatableInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IBuffer.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PackageReferencePattern.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/PackageReferenceLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ISourceReference.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/RemoveFolderFromIndex.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ImportDeclaration.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/TypeParameterLocator.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnPackageReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/impl/CharConstant.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ILocalVariable.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/JavadocArgumentExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/IntersectingPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/IDocumentExtension2.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/TypeNameRequestor.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/reference/ReferenceInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ResolvedSourceType.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/BaseDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/pluginconversion/PluginConversionException.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/location/Locker_JavaIo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/BundleLocalizationImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/StateHelper.java
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*   Stephan Herrmann - Contributions for
*   bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute
**/

Found
 in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/SignerProperty.java
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*   Julian Chen - fix for bug #92572, jclRM
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* Contributors:
*   tyeung@bea.com - initial API and implementation
*   IBM Corporation - implemented methods from IBinding
*   IBM Corporation - renamed from ResolvedMemberValuePair to MemberValuePairBinding
*   jgarms@bea.com - Fix for IllegalStateException
*   IBM Corporation - Fix for 223225
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MemberValuePairBinding.java

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*     Matt McCutchen - partial fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=122995
*     Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*           bug 185682 - Increment/decrement operators mark local variables as read
*           bug 186342 - [compiler][null] Using annotations for null checking
*       bug 365519 - editorial cleanup after
 bug 186342 and bug 365387
*       bug 374605 - Unreasonable warning for enum-based switch statements
*       bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*       bug 393719 - [compiler] inconsistent warnings on iteration variables
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*       Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*       Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 426366
 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*       Bug 427282 - [1.8][compiler] AIOOB (-1) at
```

org.aspectj.org.eclipse.jdt.internal.compiler.ClassFile.traverse(ClassFile.java:6209)
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
* Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
* Bug 446442 - [1.8] merge null annotations from super methods
* Bug 437072 - [compiler][null] Null analysis
 emits possibly incorrect warning for new int[][] despite @NonNullByDefault
* Jesper S Moller - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
* Till Brychcy - Contributions for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ASTNode.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AnyWithAnnotationTypePattern.java
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*   PARC   initial implementation
*   Mik Kersten 2004-07-26 extended to allow overloading of
*   hierarchy builder
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/BinaryModuleBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/provisional/JavaModelAccess.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SplitPackageBinding.java
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*   Sergey Prigogin (Google) - use parameterized types (bug 442021)
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/localstore/SafeFileOutputStream.java
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*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*        Bug 441797 - [1.8] synchronize type annotations on capture and its wildcard
*        Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker
 hint from applicability analysis
*        Bug 456924 - StackOverflowError during compilation
*        Bug 462790 - [null] NPE in Expression.computeConversion()
*     Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*        Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/util/tracker/ServiceTracker.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/log/LogEntry.java

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* Anton Leherbauer (Wind River) - [198591] Allow Builder to specify scheduling rule
```

* Anton Leherbauer (Wind River) - [305858] Allow Builder to return null rule
* James Blackburn (Broadcom) - [306822] Provide Context for Builder getRule()
* Broadcom Corporation - build configurations and references
* Torbjörn Svensson (STMicroelectronics) - bug #552606
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/ComponentInfoWithAnnotation.java
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*     Palo Alto Research Center, Incorporated - AspectJ adaptation
*     Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
*     Stephan Herrmann - Contributions for
*        bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
*        bug 374605 - Unreasonable warning for enum-based switch statements
*        bug 393719 - [compiler] inconsistent warnings on iteration variables
 *        bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*        bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
*        bug 401035 - [1.8] A few tests have started failing recently
*     Jesper S Moller - Contributions for
*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*       bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
*       bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*       bug 393192 - Incomplete type hierarchy with > 10 annotations
*       bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*        Andy Clement - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409250 - [1.8][compiler]
 Various loose ends in 308 code generation
*                    Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
*******************************************************************************/

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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/TheOriginalJDTParserClass.java
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*       bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*                    Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference
expressions
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*    Stephan Herrmann - Contribution for
*       bug 402028 - [1.8][compiler] null analysis for reference
 expressions
*       bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to
Files::walk
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*       Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
*       Bug 427438
 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*       Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*       Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*       Bug 426537 - [1.8][inference] Eclipse compiler thinks I<? super J> is compatible with I<J<?>> - raw type J
involved
*       Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*       Bug 435689 - [1.8][inference] Type inference not occurring with lambda expression and method reference
*       Bug 438383 - [1.8][null] Bogus warning: Null type safety at method return type
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*       Bug 438945
 - [1.8] NullPointerException InferenceContext18.checkExpression in java 8 with generics, primitives, and
overloading
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*       Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*       Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*       Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*       Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/team/IMoveDeleteHook.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IProjectNature.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceDeltaVisitor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceProxyVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceProxy.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/ISynchronizer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IStorage.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/ISaveContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IWorkspaceDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IPathVariableChangeListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/ISavedState.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/ISaveParticipant.java
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                       Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
*                       Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
*
                Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/TypeAnnotationCodeStream.java
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*     Stephan Herrmann - Contribution for
*       bug 363858 - [dom] early throwing of AbortCompilation causes NPE in CompilationUnitResolver
```

```
*       Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled
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*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*     Mickael Istria (Red Hat Inc.) - Bug 488937
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IUpdatableModule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ModularClassFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceModule.java
*

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*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/bundleresource/Handler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/NamedMember.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/url/bundleentry/Handler.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeVisibleTypeAnnotationsAttribute.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IRuntimeInvisibleTypeAnnotationsAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/RuntimeVisibleTypeAnnotationsAttribute.java
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*   bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null]
 distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across loop boundaries
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 376263 - Bogus "Potential null pointer access" warning
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   bug 406384 - Internal error with I20130413
*   Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*   Bug 421035 - [resource]
 False alarm of resource leak warning when casting a closeable in its assignment
*   Jesper S Moller - contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/INestMemberAttributeEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/NestMembersAttribute.java
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*   Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*   Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Karsten Thoms - Bug 532505
*   Sebastian Zarnekow - Contribution for

* Bug 545491 - Poor performance of ReferenceCollection with many source files
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceProperties.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceReferenceImpl.java
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 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/internal/reliablefile/ReliableFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/util/Headers.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SyntheticFactoryMethodBinding.java
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*   Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/LocationValidator.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/signedcontent/BundleToJarInputStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Pattern.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Pattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NullPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/TypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/CaseDefaultExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/GuardedPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/GuardedPattern.java
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*     Andrey Loskutov <loskutov@gmx.de> - bug 484014
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* Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
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*        Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* Anton Leherbauer (Wind River) - [198591] Allow Builder to specify scheduling rule
* Anton Leherbauer (Wind River) - [305858] Allow Builder to return null rule
* James Blackburn (Broadcom) - [306822] Provide Context for Builder getRule()
* Broadcom Corporation - build configurations and references
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IncrementalProjectBuilder.java
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*     Martin Lippert     initial implementation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/WeavingClassLoader.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/GeneratedClassHandler.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/Reflection.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/TypeSafeEnum.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/NaiveASTFlattener.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/SwitchCase.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/ASTRewriteFlattener.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/util/DOMASTUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/connect/ConnectHookConfigurator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/connect/DelegatingConnectClassLoader.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TextBlock.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/TreeLineTracker.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/filesystem/provider/FileSystem.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/Activator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/exchange/IProductPreferencesService.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/exchange/ILegacyPreferences.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/FileCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/PreferencesOSGiUtils.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/NullFileSystem.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/IPreferencesConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/NullFileStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/InternalFileSystemCore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ResourceAdapterFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/ImmutableMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/legacy/ProductPreferencesService.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/propertytester/ResourcePropertyTester.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/IPreferenceFilter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/PreferenceModifyListener.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerReader.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/TagElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/CompletionRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MarkerAnnotation.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/NormalAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MemberValuePair.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/EquinoxLogWriter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Annotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Comment.java
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*   bug 384380 - False positive on a "Potential null pointer access" after a continue
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*
     Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
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*   IBM Corporation - fix for bug 342757
*   Stephan Herrmann - Contribution for bug 186342 - [compiler][null] Using annotations for null checking
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/ContentTypeVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentTypeSettings.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/IContentConstants.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/ContentTypeSettings.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/BasicDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/ILazySource.java
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*         bug 407191 - [1.8] Binary access support for type annotations
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*         Bug 440474 - [null] textual encoding of external null annotations
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/dto/BundleWiringDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/WireDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/hooks/weaving/WovenClassListener.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/dto/BundleStartLevelDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/dto/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/dto/BundleWireDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/wiring/dto/BundleRevisionDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/ResourceDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/WiringDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/dto/RequirementDTO.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/dto/package-info.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/startlevel/dto/FrameworkStartLevelDTO.java
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*   bug 335093 - [compiler][null] minimal hook for future null annotation support
*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when
 compiling the Eclipse SDK
*   bug 370930 - NonNull annotation not considered for enhanced for loops
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*   bug 331649 - [compiler][null] consider null annotations for fields
*   bug 383368 - [compiler][null] syntactic null analysis for field references
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*   Bug 417758 - [1.8][null] Null safety compromise
 during array creation.
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException
instead of IOException)
*   Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop

* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/SortedCompoundNameVector.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Jesper Steen Moeller - Contribution for

*   Bug 406973 - [compiler] Parse MethodParameters attribute
***/

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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnPackageVisibilityReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ModuleBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ModuleLocator.java
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*   Sergey Prigogin (Google) - use parameterized types (bug 442021)
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 483464
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*   Alex Smirnoff (alexsmr@sympatico.ca) - part of the changes to support Java-like extension

```
*                                          (see https://bugs.eclipse.org/bugs/show_bug.cgi?id=71460)
*     Microsoft Corporation - support custom options at compilation unit level
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*   Harry Terkelsen (het@google.com) - Bug 449262 - Allow the use of third-party Java formatters
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/annotation/RuntimeInvisTypeAnnos.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/IJavaSearchScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/SearchRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/ObjectMap.java
*
 /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SetClasspathOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/diagnose/LexStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/MethodReferenceMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/NormalAnnotation.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/dynamichelpers/IExtensionChangeHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ThirdLevelConfigurationElementHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/Contribution.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ExtensionHandle.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/IExtendedCompletionRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ExtensionPointHandle.java
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*   bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*   bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/BinaryContainer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/Module.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/UsesStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/PackageExportImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IDynamicReferenceProvider.java
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*   Bug 458577 - IClassFile.getWorkingCopy() may lead to NPE in BecomeWorkingCopyOperation
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*   Bug 462768 - [null] NPE when using linked folder for external annotations
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*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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*        bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*     Jesper Steen Moller - Contributions for
*        Bug 412150 [1.8] [compiler]
 Enable reflected parameter names during annotation processing
**********************************************************************************/
```

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*         Bug 407191 - [1.8] Binary access support for type annotations
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*   Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
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*     Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        bug
 383368 - [compiler][null] syntactic null analysis for field references
*        bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*        Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*        Bug 430150 - [1.8][null] stricter checking against type variables
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration
 style null annotations
*        Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ant/taskdefs/Ajc10.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ant/taskdefs/Ajc2.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ant/taskdefs/compilers/Ajc.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Vladimir Piskarev <pisv@1c.ru> - Building large Java element deltas is really slow -
https://bugs.eclipse.org/443928
*   Vladimir Piskarev <pisv@1c.ru> - F_CONTENT sometimes lost when merging deltas -
https://bugs.eclipse.org/520336
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*   IBM Corporation - added J2SE 1.5 support

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IType.java
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*   Bug 407191 - [1.8] Binary access support for type annotations
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/MethodInfoWithTypeAnnotations.java
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*        Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/IMethodBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ITypeBinding.java
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*     IBM Corporation - initial API and implementation
*     Dan Rubel <dan_rubel@instantiations.com> - Implementation of getLocalTimeStamp
*     Red Hat Incorporated - get/setResourceAttribute code
*     Oakland Software Incorporated - added getSessionProperties and getPersistentProperties
*     Holger Oehm <holger.oehm@sap.com> - [226264] race condition in
Workspace.isTreeLocked()/setTreeLocked()
*     Martin Oberhuber (Wind River) -  [245937] ProjectDescription#setLinkLocation() detects non-change
 *     Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
*     James Blackburn (Broadcom Corp.) - ongoing development
*     Sergey Prigogin (Google) - [338010] Resource.createLink() does not preserve symbolic links
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
**********************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelWeaver.java
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*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 423504 - [1.8] Implement "18.5.3
 Functional Interface Parameterization Inference"
*   Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*   Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*   Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*   Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   Bug 446442 - [1.8] merge null annotations from super methods
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
**********/

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* Christoph Läubrich - Bug 570519 - Allow to specify TemplateVariable#fInitialLength
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/SystemBundleActivator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/debug/FrameworkDebugOptions.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/util/ManifestElement.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/url/URLStreamHandlerProxy.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/sources/MultiSourcePackage.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/eventmgr/ListenerQueue.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/PermissionData.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ClassAnnotationValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/EnumAnnotationValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/IVerificationRequired.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotationNameValuePair.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AnnotationValue.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/IModelFilter.java
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*   Stephan Herrmann - Contribution for
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ExtensionPointMulti.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/localization/LocaleProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/DirectMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ExtraFlags.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/AptBinaryLocalVariableBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ConstructorDeclarationPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ExtensionMulti.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/RegistryObjectFactoryMulti.java
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*   Stephan Herrmann - Contribution for
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/select/SelectionOnArgumentName.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   IBM Corporation - Fix for bug 328575
*   het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/application/ApplicationAdminPermission.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/application/ApplicationHandle.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/application/ApplicationDescriptor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/service/application/ScheduledApplication.java
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* Contributors:
*   wharley@bea.com - initial API and implementation
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/BatchProcessingEnvImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundDispatcher.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*   Bug 320618 - inconsistent initialization of classpath container backed by external class folder
*   Bug 346010 - [model] strange initialization dependency in OptionTests
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaProject.java
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*
* Contributors:
*   PARC   initial implementation
*   Adrian Colyer added constructor to populate javaOptions with
*   default settings - 01.20.2003
*   Bugzilla #29768, 29769
*   Andy Clement
* **/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/core/builder/AjBuildConfig.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   Oakland Software Incorporated - added getSessionProperties and getPersistentProperties
*   James Blackburn (Broadcom Corp.) - ongoing development
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ResourceInfo.java
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* Contributors:
*   PARC   initial implementation

```
*     Alexandre Vasseur    support for @AJ perClause
* ********************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseSourceType.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Christoph Läubrich - add methods for logging without a IStatus object
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/ILog.java
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* Contributors:
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*     Jesper Steen Moeller - added namespace support
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/XMLRootElementContentDescriber2.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/refresh/IRefreshMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/refresh/IRefreshResult.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Martin Oberhuber (Wind River) - [292267] OutOfMemoryError due to leak in UnifiedTree
**********************************************************************************/
```

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*     Xerox/PARC     initial implementation
*     Wes Isberg     2003-2004 changes
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*     Stephan Herrmann - Contributions for
*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 422796 - [compiler][null] boxed boolean reported as potentially null after
 null test in lazy disjunction
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/AND_AND_Expression.java

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*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*       Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*       Bug 416885 - [1.8][compiler]IncompatibleClassChange error (edit)
*       Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*     Andy Clement (GoPivotal, Inc) aclement@gopivotal.com
 - Contributions for
*                    Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*                    Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
generator
*                    Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*                    Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped
*                    Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code
generator
*                    Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing
*                    Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*                    Bug 434556 - Broken class file generated for incorrect annotation usage
*                    Bug 442416
 - $deserializeLambda$ missing cases for nested lambdas
*     Stephan Herrmann - Contribution for
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*     Olivier Tardieu tardieu@us.ibm.com - Contributions for
*       Bug 442416 - $deserializeLambda$ missing cases for nested lambdas
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/IRestrictedAccessMethodRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/MethodNameMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/MethodNameRequestor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MethodDeclarationPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/MethodNameRequestorWrapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/MethodNameMatchRequestorWrapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/MethodNameMatchRequestor.java
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*   tyeung@bea.com - initial API and implementation
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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*     Stephan Herrmann - Contributions for
*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         bug 402993 - [null] Follow up
 of bug 401088: Missing warning about redundant null check
*         Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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Found in path(s):
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*     David Green - fix factories with non-standard class loading (bug 200068)
*     Filip Hrbek - fix thread safety problem described in bug 305863
*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
*******************************************************************************/
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*     Tim Hanson <thanson@bea.com> - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=137634
*     Sebastian Zarnekow - Contribution for
*       Bug 545491 - Poor performance of ReferenceCollection with many source files
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*   Jan-Ove Weichel (janove.weichel@vogella.com) - bug 474359
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*   Stephan Herrmann - Contribution for
*   Bug 466279 - [hovering] IAE on hover when annotation-based null analysis is enabled
**********/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultCommentMapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/FloatUtil.java

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesInterfacesQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnPackageVisibilityReference.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ModuleStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModule2.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesImplementationsSingleTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredExportsStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredPackageVisibilityStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredOpensStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModuleInfo.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnKeywordModuleDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnModuleReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnUsesQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesInterfacesSingleTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/HashtableOfModule.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnProvidesImplementationsQualifiedTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnModuleDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ExportsStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnUsesSingleTypeReference.java
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*   wharley@bea.com - initial API and implementation
*   IBM Corporation - Java 8 support
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/NoTypeImpl.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/ExtendedLogServiceFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/ExtendedLogServiceImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/ExtendedLogReaderServiceFactory.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/cds/CDSBundleEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/cds/CDSBundleFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/cds/CDSHookConfigurator.java
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* Contributors:
*   IBM Corporation - initial API and implementation
*   IBM Corporation - added J2SE 1.5 support
*   Stephan Herrmann - Contribution for
*   Bug 463533 - Signature.getSignatureSimpleName() returns different results for resolved and unresolved extends
**********/

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*   IBM - Initial API and implementation
*   Christoph Läubrich - remove reference to InternalPlatform.getDefault().log

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/PerformanceStatsProcessor.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/GenericAstVisitor.java
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*   daolaf@gmail.com - Contribution for bug 3292227
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* Contributors:
*   IBM Corporation - initial API and implementation
* Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/watson/ElementTreeReader.java
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*     Palo Alto Research Center, Incorporated - AspectJ adaptation
*     Patrick Wienands <pwienands@abit.de> - Contribution for bug 393749
*     Stephan Herrmann - Contribution for
*        bug 331649 - [compiler][null] consider null annotations for fields
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Clinit.java
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*   James Blackburn (Broadcom Corp.) - ongoing development
*   Andrey Loskutov <loskutov@gmx.de> - Bug 468787
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*   Alexandre Vasseur   rearchitected for #75442 finer grained matching
* **/

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*     Paul Pazderski  - Bug 549755: use {@link DocumentRewriteSession} if operation has lot of changes
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*     IBM Corporation - initial API and implementation
*     Terry Parker <tparker@google.com> - DeltaProcessor misses state changes in archive files, see
https://bugs.eclipse.org/bugs/show_bug.cgi?id=357425
*     Thirumala Reddy Mutchukota <thirumala@google.com> - Avoid optional library classpath entries validation -
https://bugs.eclipse.org/bugs/show_bug.cgi?id=412882
*     Stephan Herrmann - Contribution for
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
 *       Bug 462768 - [null] NPE when using linked folder for external annotations
*                         Bug 465296 - precedence of extra attributes on a classpath container
*     Karsten Thoms - Bug 532505 - Reduce memory footprint of ClasspathAccessRule
*******************************************************************************/
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*        Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/DefaultMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerThisOrTargetPointcutVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/Agent.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/Options.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelAccessForInlineMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/definition/Definition.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/loadtime/ConcreteAspectCodeGen.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/IRelationshipMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/IProgramElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/StructureUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajdoc/CompilerWrapper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/IElementHandleProvider.java

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/aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/IHierarchyListener.java
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*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group Support
*     Broadcom Corporation - build configurations
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*   Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*   Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
* Francis Lynch (Wind River) - [301563] Save and load tree snapshots
* Martin Oberhuber (Wind River) - [306575] Save snapshot location with project
* Mikael Barbero (Eclipse Foundation) - [286681] handle WAIT_ABANDONED_0 return value
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* Martin Oberhuber (Wind River) - [170317] add symbolic link support to API
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*           bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365835 - [compiler][null] inconsistent error reporting.
 *       bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*        bug 370639 - [compiler][resource] restore the default for resource leak warnings
*        bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*        bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*        bug 383368 - [compiler][null] syntactic null analysis for field references
*        bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*        bug 401030 - [1.8][null] Null analysis support for lambda
 methods.
*        Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*        Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*        Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*        Bug 417758 - [1.8][null] Null safety compromise during array creation.
*        Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*        Bug 430150 - [1.8][null] stricter checking against type variables
*        Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*        Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*        Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*        Bug 455723 - Nonnull argument not correctly inferred in loop
*     Jesper S Moller
 - Contributions for
*        bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/BootstrapMethodsEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IBootstrapMethodsEntry.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/index/JarIndexLocation.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/PolymorphicMethodBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/BootstrapMethodsAttribute.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/StackMapFrameCodeStream.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/util/EclipseFileManager.java
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*   Martin Lippert   initial implementation
*   Andy Clement
*   Roy Varghese - Bug 473555
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*   Bug 407191 - [1.8] Binary access support for type annotations
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*   John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
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jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComparator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportAdder.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ConflictingSimpleNameFinder.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportComment.java
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*     James Blackburn (Broadcom Corp.) - ongoing development
*     Tom Hochstein (Freescale) - Bug 409996 - 'Restore Defaults' does not work properly on Project Properties >
Resource tab
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
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*     Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*         Bug 328281 - visibility leaks not detected when analyzing unused field in private class
*         Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
*         Bug 354536 - compiling package-info.java still depends on the order of compilation units
*         Bug 349326 - [1.7] new warning for missing try-with-resources
*         Bug
```

358903 - Filter practically unimportant resource leak warnings
* Bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
* Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
* Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
* Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com -
Contributions for
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 358903 - Filter practically unimportant resource leak warnings
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
 *         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*         bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
*         bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*         bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug
```

400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
* Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 431581 - Eclipse compiles what it should not
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Bug 446442 - [1.8] merge null annotations from
super methods
* Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error
messages
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown
when using MethodSource
* Sebastian Zarnekow - Contributions
for
* bug 544921 - [performance] Poor performance with large source files
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/AnnotationAccessFieldVar.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ArrayReferenceType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelWeakClassLoaderReference.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BindingAnnotationFieldTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelWeavingSupport.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/WeakClassLoaderReference.java
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/ServiceEvent.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/InvalidSyntaxException.java
*
/aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/Configurable.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/BundleEvent.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/OnDemandComputer.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/OnDemandReduction.java

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jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/OriginalImportEntry.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportName.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/TypeConflictingSimpleNameFinder.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/ImportDeclarationWriter.java
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jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/PackageImportComparator.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/imports/OrderPreservingImportAdder.java
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*   Bug 458613 - [1.8] lambda not shown in quick type hierarchy
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/ReadWriteMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/ContentDescription.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/FileSpec.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/ITextContentDescriber.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/DefaultDescription.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/content/IContentDescription.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/LowLevelIOException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/mapping/ResourceMappingContext.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadCounter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl11.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/apache/bcel/classfile/AnnotationDefault.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStack.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/runtime/internal/cflowstack/ThreadStackFactoryImpl.java
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*   manklu@web.de - fix for bug 156082
*   Bert Vingerhoets - fix for bug 169975
*   Serge Beauchamp (Freescale Semiconductor) - [229633] Fix Concurency Exception
*   Sergey Prigogin (Google) - [338010] Resource.createLink() does not preserve symbolic links
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/AliasManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/internal/NameConvertor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/internal/HandleProviderDelimiter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/internal/JDTLikeHandleProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/asm/internal/CharOperation.java
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*     Sergey Prigogin (Google) - [338010] Resource.createLink() does not preserve symbolic links
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*   Bug 473178
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*     Terry Parker <tparker@google.com>
*           - Contribution for https://bugs.eclipse.org/bugs/show_bug.cgi?id=372418
*           -  Another problem with inner classes referenced from jars or class folders: "The type ... cannot be resolved"
*     Stephan Herrmann - Contribution for
*        Bug 392727 - Cannot compile project when a java file contains $ in its file name
*        Bug 440477 - [null] Infrastructure for feeding external annotations
 into compilation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/NameEnvironment.java
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*        bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*        bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*        bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*        Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop
 with close in try/catch
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*   Stephan Herrmann - Contributions for
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 367203 - [compiler][null] detect assigning null to nonnull argument
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*   bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*   bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 401030 - [1.8][null] Null analysis support for lambda methods.
*   Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*   Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*   Bug

435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
**********/

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* Gunnar Wagenknecht - Bug 179695 - [prefs] NPE when using Preferences API without a product
* Thirumala Reddy Mutchukota, Google Inc - Bug 380859 - [prefs] Inconsistency between DefaultPreferences and InstancePreferences
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*   Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*   bug 413958 - Function override returning inherited Generic Type
*   Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*   Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*   Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28

```
0)
*       Bug 418743 - [1.8][null] contradictory annotations on invocation of generic method not reported
*       Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*       Bug 446442 - [1.8] merge null annotations from super methods
*       Bug 457079 - Regression:
 type inference
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*        Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/signedcontent/SignedContentFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/resolver/NativeCodeSpecification.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/signedcontent/SignedContent.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/service/security/AuthorizationListener.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IBuildConfiguration.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IBuildContext.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/NullProgressMonitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/CoreException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/PlatformURLPluginConnection.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/QualifiedName.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/boot/PlatformURLBaseConnection.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/PlatformURLFragmentConnection.java
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*
*     Jesper S Moller - Contributions for
*       Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
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Found in path(s):

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/codegen/Opcodes.java
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*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/ResourceTree.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/FileStoreUtil.java
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*                    (originally in org.aspectj.org.eclipse.jdt.apt.core)
*    IBM Corporation - Bug 513790
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/util/ManyToMany.java
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*     James Blackburn (Broadcom Corp.) - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*     Mickael Istria (Red Hat Inc.) - Bug 488938, 488937
*******************************************************************************/
```

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/MarkerInfo.java
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* Contributors:
*     Alexander Fedorov <alexander.fedorov@arsysop.ru> - Initial API and implementation
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Found in path(s):

* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/PreferenceMetadata.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/OsgiPreferenceMetadataStore.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/IPreferenceMetadataStore.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contribution for
*        Bug 432977 - [1.8][null] Incorrect 'type is not visible' compiler error
*        Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
*******************************************************************************/
/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

 @T Z;                          type => Z  annotations => [[@T]]
     @T Y.@T Z                        type => Z  annotations => [[@T][@T]]
     @T X.@T Y.@T Z                       type => Z  annotations => [[@T][@T][@T]]
     java.lang.@T X.@T Y.@T Z                 type => Z  annotations => [[][][@T][@T][@T]]
     in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.
    */
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java
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```
*     Stephan Herrmann - Contributions for
*       Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*******************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/IPolyExpression.java
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*         bug 382353 - [1.8][compiler] Implementation property modifiers should
 be accepted on default methods.
*         bug 383368 - [compiler][null] syntactic null analysis for field references
*         Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*         Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*         Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*     Jesper S Moller <jesper@selskabet.org> - Contributions for
*         bug 378674 - "The method can be declared as static" is wrong
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MethodDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/Deadlock.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/Queue.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/JobChangeAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/ILock.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/MultiRule.java
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*   Lyor Goldstein (vmware) add support for weaved class being re-defined
*******************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/AsynchronousFileCacheBacking.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/ZippedFileCacheBacking.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/IElementInfo.java
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*       Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ClassFileReader.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/propertytester/ResourceMappingPropertyTester.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/SimpleResourceMapping.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/internal/adaptor/EclipseAppLauncher.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/propertytester/FilePropertyTester.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/osgi/Activator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/RegistryFactory.java

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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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Found in path(s):
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/JobListeners.java
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*     Stephan Wahlbrink  - Fix for bug 200997.
*     Thirumala Reddy Mutchukota (thirumala@google.com) -
*       Bug 432049, JobGroup API and implementation
*       Bug 105821, Support for Job#join with timeout and progress monitor
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*     Danail Nachev (ProSyst) - bug 188070
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ModulePackagesAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IModule.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ModulePattern.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IRequiresInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/RequiresInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/ModuleReferenceMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/ModuleDeclarationMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ModuleAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ProvidesInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IModulePackagesAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IModuleAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IPackageVisibilityInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IConstantPoolEntry3.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/framework/util/CaseInsensitiveDictionaryMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IModuleMainClassAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/ModuleMainClassAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IProvidesInfo.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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*   Benjamin Muskalla - Contribution for bug 239066
*   Stephan Herrmann - Contribution for
*   bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*   bug 388954 - [1.8][compiler] detect default methods in class files
*   bug 388281 - [compiler][null] inheritance of null annotations as an option
*   bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs
 to be declared abstract
*   bug 390883 - [1.8][compiler] Unable to override default method
*   bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*   bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*   bug 406928 - computation of inherited methods seems damaged (affecting @Overrides)
*   bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*   Bug 420080 - [1.8] Overridden Default method is reported as duplicated
***/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/MethodVerifier.java
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* Contributors:
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*   Andy Clement - upgrade to support fields targetting generic types
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*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 365519 - editorial cleanup after bug 186342 and bug 365387
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*   bug 385626 - @NonNull fails across
 loop boundaries
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*   Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*   Bug 455723 - Nonnull argument not correctly inferred in loop
*   Jesper S Moller - Contributions for
*   bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/flow/FinallyFlowContext.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/PreferenceServiceRegistryHelper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/util/Util.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/util/Options.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/jface/text/templates/TemplateVariableType.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/local/InfiniteProgress.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/mapping/ShallowContainer.java
* /aspectjtools-1-9-8-sources-1-
jar/org/eclipse/core/internal/resources/mapping/ResourceChangeDescriptionFactory.java
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*     het@google.com - Bug 441790
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/AnnotationValueImpl.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     IBM Corporation - added getOption(String, boolean), getOptions(boolean) and setOptions(Map)
*     IBM Corporation - deprecated getPackageFragmentRoots(IClasspathEntry) and
*                       added findPackageFragmentRoots(IClasspathEntry)
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*   IBM Corporation - added isOnClasspath(IResource)
*   IBM Corporation - added setOption(String, String)
*   IBM Corporation - added forceClasspathReload(IProgressMonitor)
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/IJavaProject.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/launch/EquinoxFactory.java
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*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*   Bug 407191 - [1.8] Binary access support for type annotations
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/FieldInfoWithTypeAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IBinaryTypeAnnotation.java

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/EquinoxSecurityManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ProcessTaskManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/SecurityTableUpdate.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/PermissionAdminTable.java
*
/aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/PermissionsHash.java
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* Tal Lev-Ami - added package cache for zip files
* Stephan Herrmann - Contribution for
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ClasspathJar.java
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*        Bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/InternalExtendedCompletionContext.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/AbstractPreferenceStorage.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/TestHelper.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/ScopeDescriptor.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleCapability.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/container/LockSet.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/Module.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/ModuleRevisions.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/container/SystemModule.java
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*     Christoph Laeubrich  - [Bug 565924] join with IProgressMonitorWithBlocking, add null aware helper methods
*          - [Bug 567808] - add support for slicing a monitor
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/CacheFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/CacheStatistics.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/DefaultCacheFactory.java
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*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
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*   Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code
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*   Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/MarkerAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/service/security/TrustEngine.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/IExecutableExtensionFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/JobActivator.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/signedcontent/SignerInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/signedcontent/InvalidContentException.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/loader/buddy/IBuddyPolicy.java
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*                       Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
*        Jesper Steen Moeller - Contribution for
*                       Bug 406973 - [compiler] Parse MethodParameters attribute
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*    IBM Corporation - Fix for bug 341494
*    IBM Corporation - Fix for bug 328575
*    IBM Corporation - Java 8 support
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*     John Glassmyer <jogl@google.com> - import group sorting is broken - https://bugs.eclipse.org/430303
*     Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
*          Bug 473178
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/connect/FrameworkUtilHelper.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/connect/ModuleConnector.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcPrivileged.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/Advice.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareError.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/HasMemberTypePatternFinder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/StringToType.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/SignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareEoW.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareSoft.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/context/ContextToken.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/context/PinpointingMessageHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelGenericSignatureToTypeXConverter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclarePrecedence.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeFieldDeclarationImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareErrorOrWarning.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/GenericSignatureInformationProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeDeclarationImpl.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/NoSuchPointcutException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutParameter.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/StandardShadowMatchImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/AjType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/TypePatternBasedPerClause.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/MissingResolvedTypeWithKnownSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/UnsupportedPointcutPrimitiveException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionVar.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareSoftImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/StandardShadow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/AdviceKind.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/PointcutDesignatorHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/TypePatternImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareAnnotation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AbstractPatternNodeVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareErrorOrWarningImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/Pointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/Java15GenericSignatureInformationProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ShadowMatchImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/JoinPointSignatureIterator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/TypeVariablePatternList.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/ContextBasedMatcher.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/TypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/AjTypeImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/PointcutParameterImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/JoinPointSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeMethodDeclarationImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/SignaturePatternImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ScopeWithTypeVariables.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareAnnotationImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PerClause.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AtAspectJAnnotationFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/TypePatternBasedPerClauseImpl.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclarePrecedence.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/DeclareParents.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PerClauseKind.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/context/ContextFormatter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeConstructorDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutExpressionImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionShadow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/JoinPointMatchImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclareParentsImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/DefaultMatchingContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeDeclaration.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareAnnotation.java
* /aspectjtools-1-9-8-sources-1-

jar/org/aspectj/weaver/patterns/HasThisTypePatternTriedToSneakInSomeGenericOrParameterizedTypePatternMatchingStuffAnywhereVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/MatchingContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcITD.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegate.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/ReflectionBasedReferenceTypeDelegateFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/AjTypeSystem.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/JoinPointMatch.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PointcutExpression.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/Java15ReflectionBasedReferenceTypeDelegate.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/InterTypeConstructorDeclarationImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/TypeVariableReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/AdviceImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareSoft.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/annotation/ajcDeclareParents.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/MatchingContextBasedTest.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PerClauseImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/PointcutBasedPerClauseImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/internal/tools/PointcutDesignatorHandlerBasedPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/annotation/DeclareWarning.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/NoSuchAdviceException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/PointcutBasedPerClause.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/TypeVariablePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeMethodDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/internal/lang/reflect/DeclarePrecedenceImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/lang/reflect/InterTypeFieldDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/Java14GenericSignatureInformationProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/ShadowMatch.java
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*   IBM Corporation - initial API and implementation
*   Isaac Pacht (isaacp3@gmail.com) - fix for bug 206540
*   Anton Leherbauer (Wind River) - [305858] Allow Builder to return null rule
*   James Blackburn (Broadcom) - [306822] Provide Context for Builder getRule()

* Broadcom Corporation - ongoing development
* Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
* Torbjörn Svensson (STMicroelectronics) - bug #552606
**********/

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 in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/events/BuildManager.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/util/UtilClassLoader.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/AptSourceLocalVariableBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/preferences/BundleDefaultPreferences.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/preferences/BundleDefaultsScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/FilterDescriptor.java
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/PermissionInfoCollection.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ShrinkableCollection.java
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* Contributors:
*    tyeung@bea.com - initial API and implementation
*    olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ClassSignature.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/EnumConstantSignature.java
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*     PARC initial implementation
*     IBM Corporation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/parser/DeclarationFactory.java
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*     Sergey Prigogin (Google) - use parameterized types (bug 442021)
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/PlatformLogWriter.java
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*     Stephan Herrmann - Contributions for
*        bug 349326 - [1.7] new warning for missing try-with-resources
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 364890 - BinaryTypeBinding should use char constants from Util
*        bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
*        bug 358903 - Filter practically unimportant resource leak warnings
*        bug
 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*        bug 388800 - [1.8][compiler] detect default methods in class files
```

```
*       bug 388281 - [compiler][null] inheritance of null annotations as an option
*       bug 331649 - [compiler][null] consider null annotations for fields
*       bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*       Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*       Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*       Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*       Bug 392245 - [1.8][compiler][null] Define whether
 / how @NonNullByDefault applies to TYPE_USE locations
*       Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*       Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*       Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*       Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*       Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*       Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*       Bug 454182 - Internal compiler error when using
 1.8 compliance for simple project
*       Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
*       Bug 447661 - [1.8][null] Incorrect 'expression needs unchecked conversion' warning
*    Jesper Steen Moller - Contributions for
*       Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
*       Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*    Sebastian Zarnekow - Contributions for
*       bug 544921 - [performance] Poor performance with large source files
*    Alexander Lehmann - Contributions for
*       bug 566258 - Intermittent NPE in APT RoundDispatcher
**********************************************************************************/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/LogServiceManager.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/ExtendedLogEntryImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/LoggerImpl.java
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*   IBM Corporation - initial API and implementation
*   Jesper S Moller - Bug 392671
*   NPE with a method with explicit this and a following incomplete parameter
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* variant of Aspects in the aspectj5rt project - this one isn't Java5 - Andy Clement
**********/

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*   Stephan Herrmann - Contribution for
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
**********/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetSuperReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetReturnStatement.java
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*   Sergey Prigogin (Google) - ongoing development
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/LockListener.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/runtime/jobs/IJobStatus.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/jobs/ThreadJob.java
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* Contributors:
*   Mik Kersten   initial implementation
*   Andy Clement, IBM, SpringSource   Extensions for better IDE representation
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/namespace/ExecutionEnvironmentNamespace.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/namespace/BundleNamespace.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/osgi/resource/Namespace.java
* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/namespace/PackageNamespace.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/log/LoggerContextTargetMap.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceObjectsImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/SourceRangeVerifier.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/serviceregistry/ServiceConsumer.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/framework/StorageSaver.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/Modifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/ISourceType.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IPermittedSubclassesAttributeEntry.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/LocalVariableLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/MissingTypeBinding.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/ClassFileMatchLocator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/ImportBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceFieldElementInfo.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/BinaryIndexer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IPermittedSubclassesAttribute.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CompilationUnitStructureRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/hierarchy/HierarchyBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/SimpleDocument.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ISourceElementRequestor.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/SourceIndexerRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ClasspathDirectory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateTypeMemberOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/jdom/SimpleDOMBuilder.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/BindingResolver.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/util/IClassFileReader.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/ImportReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/text/StringMatcher.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CopyResourceElementsOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/ClasspathMultiDirectory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/JavaConventions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SearchableEnvironmentRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CreateElementInCUOperation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/DeleteElementsOperation.java
*
 /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnJavadocTag.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceTypeElementInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryRecordComponent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/RelevanceConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/indexing/AbstractIndexer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/IJavaSearchConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/SourceElementParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SelectionRequestor.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/env/IRecordComponent.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/classfmt/RecordComponentInfo.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/YieldStatement.java
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*   AndyClement extracted as self contained type from Lint type (4-Aug-06)
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* /aspectjtools-1-9-8-sources-1-jar/org/osgi/framework/ServicePermission.java
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*   Serge Beauchamp (Freescale Semiconductor) - [252996] add PT_FILTER_PROVIDERS
*   Serge Beauchamp (Freescale Semiconductor) - [229633] add PT_VARIABLE_PROVIDERS
*   James Blackburn (Broadcom Corp.) - ongoing development
*   Tom Hochstein (Freescale) - Bug 409996 - 'Restore Defaults' does not work properly on Project Properties >
Resource tab
*   Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
***/

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*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 365519 - editorial cleanup after bug 186342 and bug 365387
*         bug 388281 - [compiler][null] inheritance of null annotations as an option
*         bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*         bug 388739 - [1.8][compiler] consider default methods when detecting whether
 a class needs to be declared abstract
*         bug 390883 - [1.8][compiler] Unable to override default method
*         bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*         bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*         bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*         bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*         bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*         bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*         bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*         Bug 420080 - [1.8] Overridden Default method is reported as duplicated
*         Bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
 *         Bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*         Bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in
@NonNullByDefault
*         Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*         Bug 446442 - [1.8] merge null annotations from super methods
**********************************************************************************/

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* IBM Corporation - initial API and implementation
* Chris McGee (IBM) - Bug 380325 - Release filesystem fragment providing Java 7 NIO2 support
* Sergey Prigogin (Google) - ongoing development
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/registry/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/undo/UndoMessages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/utils/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/batch/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/problem/messages.properties
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/index/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/messages/ExternalMessages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/edits/Messages.properties

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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/text/templates/TextTemplateMessages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/content/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/filesystem/messages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/runtime/commonMessages.properties
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/formatter/messages.properties
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* Francis Lynch (Wind River) - [305718] Allow reading snapshot into renamed project
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*   tyeung@bea.com - initial API and implementation
*   IBM Corporation - changed interface to extend IBinding
*   IBM Corporation - renamed from IResolvedAnnotation to IAnnotationBinding
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*   Stephan Herrmann - Contribution for
*   Bug 440477 - [null] Infrastructure for feeding external annotations into compilation

* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* IBM Corporation - initial API
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* Martin Oberhuber (Wind River) - [44107] Add symbolic links to ResourceAttributes API
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* Stephan Herrmann - Contribution for
* Bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
* Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
***/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/DefaultBindingResolver.java
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* Contributors:
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*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                     Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic
bridge method
*                     Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
*        Stephan Herrmann - Contribution for
*       Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8
 18.x (Part G of JSR335 spec)
*       Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*       Bug 427438 - [1.8][compiler] NPE at
org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:28
0)
*******************************************************************************/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/eval/CodeSnippetMessageSend.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Project Path Variable Support
*     Anton Leherbauer (Wind River) - [198591] Allow Builder to specify scheduling rule
*     Francis Lynch (Wind River) - [301563] Save and load tree snapshots
*     Markus Schorn (Wind River) - [306575] Save snapshot location with project
*     Broadcom Corporation - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*******************************************************************************/
```

Found
in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/Project.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/signedcontent/TrustEngineListener.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/compiler/batch/BatchCompiler.java
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*
* Contributors:
*   Adrian Colyer   Initial implementation
*   Andy Clement   various fixes
*   Trask Stanalker #373195
* **/

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/bridge/context/CompilationAndWeavingContext.java
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*   IBM Corporation - ongoing development
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Found in path(s):
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*   PARC   initial implementation
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NoTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/EllipsisTypePattern.java
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* Contributors:
*   Adrian Colyer          Initial implementation
* ********************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/InternalUseOnlyPointcutParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/reflect/DeferredResolvedPointcutDefinition.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/storage/bundlefile/BundleFileWrapper.java
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*     IBM Corporation - ongoing development
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/RegexFileInfoMatcher.java
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* Contributors:
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*     Stephan Herrmann - Contributions for
*        bug 186342 - [compiler][null] Using annotations for null checking
*        bug 365519 - editorial cleanup after bug 186342 and bug 365387
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*        Bug 435570 - [1.8][null] @NonNullByDefault
 illegally tries to affect "throws E"
*        Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this
location
*        Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*        Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*                        Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/Argument.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/PrivilegedFieldBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterTypeConstructorDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/OrPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/CflowPointcut.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/FormalBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NameBindingPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NamePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseSourceLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelMethod.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithinPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IHasSourceLocation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/TypePatternQuestions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ThisOrTargetPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WithincodePointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/PointcutDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExposedState.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/Declare.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/compiler/IAjTerminalSymbols.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/PseudoToken.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/SourceContextImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/StaticJoinPointFactory.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelRenderer.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerFromSuper.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/ajc/BuildArgParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Var.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/CallExpr.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/PrivilegedHandler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IClassWeaver.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/OrTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/FieldGet.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/HandlerPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/Pointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/PointcutDesignator.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/NewParentTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ReferencePointcut.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/ajdt/internal/compiler/lookup/SimpleSyntheticAccessMethodBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BasicToken.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/DeclarePrecedence.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/MemberKind.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/LazyMethodGen.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/KindedPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerClause.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/UnwovenClassFile.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ShadowMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/SimpleScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AspectClinit.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterTypeFieldDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PatternNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/InterTypeMethodBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/model/AsmRelationshipProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AjcMemberMaker.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterSuperReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/InlineAccessFieldBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterTypeDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/ASTNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/BasicTokenSource.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AdviceDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ThrowsPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/ShadowRange.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/NewConstructorTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelClassWeaver.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/PseudoTokens.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/AjTypeConstants.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/AndTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/BCException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ISourceContext.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Not.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/IScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/Bindings.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/DeclareDeclaration.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/ProceedVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/EclipseAttributeAdapter.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterTypeMethodDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ExactTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerSingleton.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/InterTypeScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/IfPseudoToken.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelCflowStackFieldAdder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/InterSuperFixerVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/PointcutBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/NewFieldTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseShadow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Test.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Or.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/MakeDeclsPublicVisitor.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseScope.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ConcreteCflowPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/SignaturePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AjAttribute.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/ITestVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Instanceof.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ModifiersPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Iterators.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/core/builder/EclipseSourceContext.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IHasPosition.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/NewMethodTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/KnownMessageSend.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerObject.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/IExprVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/ThisJoinPointVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/CrosscuttingMembers.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Shadow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Literal.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/DeclareSoft.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/IToken.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/ExceptionRange.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Expr.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/problem/AjProblemReporter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/InterTypeFieldBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/EclipseTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Position.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Lint.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/Range.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/NotPointcut.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/SuperFixerVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/Call.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/MemberImpl.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelFieldRef.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/AdviceKind.java
*
/aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/core/builder/AjCompilerOptions.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/FieldGetCall.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ITokenSource.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/ajc/AjdtCommand.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ParserException.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/tools/ajc/Main.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/TypePatternList.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/WildTypePattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/Utility.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/ArgsPointcut.java

* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Checker.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AccessForInlineVisitor.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/PrivilegedAccessMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/DeclareErrorOrWarning.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/AjLookupEnvironment.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelVar.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/AstUtil.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/And.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ResolvedPointcutDefinition.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ConcreteTypeMunger.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/KnownFieldReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/ast/IfMethodDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IntMap.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/patterns/PerCflow.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/Advice.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/bcel/BcelCflowAccessVar.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/NameMangler.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/lookup/HelperInterfaceBinding.java
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*   Alex Blewitt (bug 172969)
***/

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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/log/Logger.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/equinox/log/ExtendedLogService.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Terry Parker <tparker@google.com> (Google Inc.)  https://bugs.eclipse.org/365499
*     Stephan Herrmann - Contribution for
*        Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaModelCache.java
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*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 527657
*******************************************************************************/
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/resources/IResourceChangeListener.java

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*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
*     James Blackburn (Broadcom Corp.) - ongoing development
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/LinkDescription.java
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*   Abraham Nevado (lucierna) initial implementation
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/SimpleCache.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/cache/SimpleCacheFactory.java
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*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group Support
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*     Stephan Herrmann - Contribution for
*           bug 349326 - [1.7] new warning for missing try-with-resources
*           bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*       bug 358903 - Filter practically unimportant resource leak warnings
*       Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*       Bug 400874 - [1.8][compiler] Inference infrastructure
 should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*       Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*       Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*       Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*       Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*       Bug 435962 - [RC2] StackOverFlowError when building
*       Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*       Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*       Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*******************************************************************************/
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Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/CaptureBinding18.java
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*   Igor Fedorenko - extracted from ElementsImpl
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/model/ElementsImpl9.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/PlainPackageBinding.java
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*     IBM Corporation - initial API and implementation
*     Stephan Herrmann - Contributions for
*        Bug 463330 - [dom] DOMFinder doesn't find the VariableBinding corresponding to a method argument
*        Bug 464463 - [dom] DOMFinder doesn't find an ITypeParameter
*        Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
*******************************************************************************/

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/util/DOMFinder.java
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*     Stephan Herrmann - Contribution for
*        bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*        Bug 417295 - [1.8[[null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*        Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*******************************************************************************/

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 in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/BaseTypeBinding.java
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/provisional/service/security/AuthorizationStatus.java
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/permadmin/SecurityRowSnapShot.java
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* Contributors:
*     IBM Corporation - initial API and implementation
*     Alex Blewitt - alex_blewitt@yahoo.com https://bugs.eclipse.org/bugs/show_bug.cgi?id=171066
*     Microsoft Corporation - read formatting options from the compilation unit
*******************************************************************************/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SortElementsOperation.java
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* Contributors:
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*     Red Hat Incorporated - loadProjectDescription(InputStream)
*     Serge Beauchamp (Freescale Semiconductor) - [252996] add resource filtering
*     Serge Beauchamp (Freescale Semiconductor) - [229633] Group and Project Path Variable Support
*     Broadcom Corporation - ongoing development
*     Lars Vogel <Lars.Vogel@vogella.com> - Bug 473427
*******************************************************************************/
/**
* The workspace
 class is the monolithic nerve center of the resources plugin.
* All interesting functionality stems from this class.
* <p>
```

```
* The lifecycle of the resources plugin is encapsulated by the {@link #open(IProgressMonitor)}
* and {@link #close(IProgressMonitor)} methods.  A closed workspace is completely
* unusable - any attempt to access or modify interesting workspace state on a closed
* workspace will fail.
* </p>
* <p>
* All modifications to the workspace occur within the context of a workspace operation.
* A workspace operation is implemented using the following sequence:
* </p>
* <pre>
*  try {
*  prepareOperation(...);
*  //check preconditions
*  beginOperation(...);
*  //perform changes
* } finally {
*  endOperation(...);
* }
* </pre>
* Workspace operations can be nested arbitrarily. A "top level" workspace operation
* is an operation that is not nested within another workspace operation in the current
* thread.
* <p>
* See the javadoc of {@link #prepareOperation(ISchedulingRule,
 IProgressMonitor)},
* {@link #beginOperation(boolean)}, and {@link #endOperation(ISchedulingRule, boolean)}
* for more details.
* </p>
* <p>
* Major areas of functionality are farmed off to various manager classes.  Open a
* type hierarchy on {@link IManager} to see all the different managers. Each
* manager is typically referenced three times in this class: Once in {@link #startup(IProgressMonitor)}
* when it is instantiated, once in {@link #shutdown(IProgressMonitor)} when it
* is destroyed, and once in a manager accessor method.
* </p>
*/
```

Found in path(s):
* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/core/internal/resources/Workspace.java
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryMember.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/MethodDeclaration.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/CompilationUnitProblemFinder.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/impl/AssistParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/search/SearchPattern.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/BinaryType.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/ClassFileInfo.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionOnSingleTypeReference.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceType.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/MatchLocatorParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/AST.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTNode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/Messages.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/builder/AbstractImageBuilder.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ASTVisitor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/lookup/AnnotationBinding.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/JavaElement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionScanner.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/ast/CaseStatement.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/SourceField.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/dom/ASTMatcher.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/Member.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/parser/ParserBasicInformation.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/dom/rewrite/ASTRewriteAnalyzer.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionNodeDetector.java
* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/org/eclipse/jdt/internal/codeassist/complete/CompletionJavadocParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/core/search/matching/FieldLocator.java
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*     Sergey Stupin - contributions for adding annotation processing support to ajc
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*     Andy Clement
*     Abraham Nevado
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* /aspectjtools-1-9-8-sources-1-jar/org/eclipse/osgi/internal/hooks/EclipseLazyStarter.java
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jar/org/aspectj/org/eclipse/jdt/internal/compiler/apt/dispatch/AnnotationDiscoveryVisitor.java
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*         Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
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*     Stephan Herrmann - Contributions for
*         bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*         bug 186342 - [compiler][null] Using annotations for null checking
*         bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*         bug 370639 - [compiler][resource] restore the default for resource
 leak warnings
*         bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*         bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
```

checking
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
* Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427438 - [1.8][compiler] NPE at org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/ast/HasAnnotation.java
*
 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/core/builder/AjBuildNotifier.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/AjCompilerAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/IOutputClassFileNameProvider.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/IIntermediateResultsRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/tools/StandardPointcutParser.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/WeaverAdapter.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IWeaveRequestor.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/WeaverMessageHandler.java
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 /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/IBinarySourceProvider.java
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* /aspectjtools-1-9-8-sources-1-
jar/org/aspectj/weaver/bcel/UnwovenClassFileWithThirdPartyManagedBytecode.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/ajdt/internal/compiler/InterimCompilationResult.java
* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/weaver/IClassFileProvider.java

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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/core/ITypeRoot.java
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*     IBM Corporation - initial API and implementation
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*         bug 349326 - [1.7] new warning for missing try-with-resources
*         bug 374605 - Unreasonable warning for enum-based switch statements
*         bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*         bug 382354 - [1.8][compiler] Compiler silent on conflicting modifier
*         bug 401030 - [1.8][null] Null analysis support for lambda methods.
*         Bug
```

416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*   Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*   Jesper S Moller - Contributions for
*   bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
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* /aspectjtools-1-9-8-sources-1-jar/org/aspectj/org/eclipse/jdt/internal/compiler/util/HashtableOfInteger.java

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*         bug 342671 - ClassCastException: org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot
be cast to org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*         bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*         Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*         Bug 416181 - [1.8][compiler][null]
 Invalid assignment is not rejected by the compiler
*         Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*         Bug 434600 - Incorrect null analysis error reporting on type parameters
*         Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*         Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*         Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*         Andy Clement - Contributions for
*                         Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's
work)
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*   Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*   Bug 462025 - [null][test] create tests for manipulating external null annotations
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* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/event/ConnectionCheckOutFailedEvent.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/bulk/BulkWriteUpsert.java
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jar/com/mongodb/internal/connection/MongoWriteConcernWithResponseException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/ZlibCompressor.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/DefaultClusterFactory.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/changestream/OperationType.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/event/ConnectionPoolClosedEvent.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/binding/TransactionContext.java

*
/mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/CreateCollectionOptions.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/event/ServerListenerMulticaster.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/event/EventListenerHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/DeleteOneModel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/gridfs/model/GridFSDownloadOptions.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/binding/ClusterBinding.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/event/ConnectionCheckedOutEvent.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/OperationHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/mql/BranchesTerminal.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/geojson/Point.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/CursorType.java
*
/mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/AsyncQueryBatchCursor.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/event/ClusterClosedEvent.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/SingleServerCluster.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/CountDocumentsOperation.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/Time.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/capi/MongoCryptHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/spi/dns/DnsWithResponseCodeException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/Updates.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/search/SearchOptions.java
*
/mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/ByteBufBsonHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/mql/BranchesIntermediary.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/CreateCollectionOperation.java
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* https://github.com/marianobarrios/tls-channel
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* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
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* https://github.com/marianobarrios/tls-channel
*/

Found in path(s):
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsExplorer.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/ServerTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelCallbackException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/async/ExtendedAsynchronousByteChannel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/DirectBufferAllocator.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java

* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/SniSslContextFactory.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/package-info.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/HeapBufferAllocator.java
*
/mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /mongodb-driver-core-4-11-1-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/spi/dns/package-info.java
* /mongodb-driver-core-4-11-1-sources-
jar/com/mongodb/internal/connection/tlschannel/util/DirectBufferDeallocator.java
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* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/annotations/Immutable.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/annotations/NotThreadSafe.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/annotations/ThreadSafe.java
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Found in path(s):
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/search/NumberRangeSearchOperatorBase.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/search/DateRangeSearchOperatorBase.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/densify/NumberDensifyRange.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/client/model/densify/DateDensifyRange.java
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* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/ServerApi.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/ServerApiVersion.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/lang/package-info.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/TransactionOptions.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/connection/ReadConcernHelper.java
*
/mongodb-driver-core-4-11-1-sources-jar/com/mongodb/lang/Nullable.java
* /mongodb-driver-core-4-11-1-sources-
jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/LoggerSettings.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/lang/NonNullApi.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/ServerVersionHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/ReadPreferenceHedgeOptions.java
* /mongodb-driver-core-4-11-1-sources-jar/com/mongodb/lang/NonNull.java

1.546 resilience4j-circuitbreaker 1.7.1

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* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/AbstractCircuitBreakerEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/internal/InMemoryCircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-

jar/io/github/resilience4j/circuitbreaker/CallNotPermittedException.java
*
/resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnErrorEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnIgnoredErrorEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnResetEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnStateTransitionEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerRegistry.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnSuccessEvent.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreakerConfig.java
*
/resilience4j-circuitbreaker-1-7-1-sources-1-
jar/io/github/resilience4j/circuitbreaker/event/CircuitBreakerOnCallNotPermittedEvent.java
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* /resilience4j-circuitbreaker-1-7-1-sources-1-jar/io/github/resilience4j/circuitbreaker/CircuitBreaker.java
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* /resilience4j-circuitbreaker-1-7-1-sources-1-jar/io/github/resilience4j/circuitbreaker/event/package-info.java
* /resilience4j-circuitbreaker-1-7-1-sources-1-jar/io/github/resilience4j/circuitbreaker/package-info.java
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1.547 jaxb-runtime 2.3.1

1.548 hibernate-entitymanager 3.6.7.Final

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1.549 jedis 5.1.2

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Manifest-Version: 1.0
Bundle-Description: Jedis is a blazingly small and sane Redis java cli
ent.
Automatic-Module-Name: redis.clients.jedis
Bundle-License: https://github.com/redis/jedis/blob/master/LICENSE
Bundle-SymbolicName: redis.clients.jedis
Bnd-LastModified: 1709723810918
Bundle-ManifestVersion: 2
Import-Package: com.google.gson;version="[2.10,3)",io.github.resilienc
e4j.circuitbreaker;resolution:=optional,io.github.resilience4j.circui
tbreaker.event;resolution:=optional,io.github.resilience4j.core;resol
ution:=optional,io.github.resilience4j.decorators;resolution:=optiona
l,io.github.resilience4j.retry;resolution:=optional,io.github.resilie
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ache.commons.pool2;version="[2.12,3)",org.apache.commons.pool2.impl;v
ersion="[2.12,3)",org.json;version="[20231013.0,20231014)",org.slf4j;
version="[1.7,2)",redis.clients.jedis,redis.clients.jedis.args,redis.
clients.jedis.bloom,redis.clients.jedis.bloom.commands,redis.clients.
jedis.commands,redis.clients.jedis.exceptions,redis.clients.jedis.exe
cutors,redis.clients.jedis.gears,redis.clients.jedis.gears.resps,redi
s.clients.jedis.graph,redis.clients.jedis.graph.entities,redis.client
s.jedis.json,redis.clients.jedis.json.commands,redis.clients.jedis.mc
f,redis.clients.jedis.params,redis.clients.jedis.providers,redis.clie
nts.jedis.resps,redis.clients.jedis.search,redis.clients.jedis.search
.aggr,redis.clients.jedis.search.schemafields,redis.clients.jedis.tim
eseries,redis.clients.jedis.util
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.3.1.202206071316
Export-Package: redis.clients.jedis;uses:="io.github.resilience4j.circ
uitbreaker,javax.net.ssl,org.apache.commons.pool2,org.apache.commons.
pool2.impl,org.json,redis.clients.jedis.args,redis.clients.jedis.bloo
m,redis.clients.jedis.commands,redis.clients.jedis.exceptions,redis.c
lients.jedis.executors,redis.clients.jedis.gears,redis.clients.jedis.
gears.resps,redis.clients.jedis.graph,redis.clients.jedis.json,redis.
clients.jedis.params,redis.clients.jedis.providers,redis.clients.jedi
s.resps,redis.clients.jedis.search,redis.clients.jedis.search.aggr,re
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resilience4j.circuitbreaker,io.github.resilience4j.retry,org.apache.c
ommons.pool2,org.apache.commons.pool2.impl,redis.clients.jedis,redis.
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Bundle-Version: 5.1.2
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.9

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1.550 gdbm 1.14.1-6

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Corresponding Source fixed on a durable physical medium
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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or
customer support for that product
model, to give anyone who possesses the object code either (1) a
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more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge.
You need not require recipients to copy the
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1.551 google-http-client 1.15.0-rc

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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteCountingOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/testing/http/javanet/MockHttpURLConnection.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/FixedClock.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/EmptyContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/JsonWebSignature.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonFactory.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpEncoding.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingByteArrayOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/JsonWebToken.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/LogRecordingHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonGenerator.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingOutputStream.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteArrayStreamingContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/IOUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/MockJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ObjectParser.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Clock.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/javanet/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/GZipEncoding.java
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*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/apache/MockHttpClient.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sets.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/MockBackOff.java
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jar/com/google/api/client/testing/util/TestableByteArrayOutputStream.java
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jar/com/google/api/client/http/HttpBackOffUnsuccessfulResponseHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Strings.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/package-info.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/json/MockJsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/util/SecurityTestUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/SecurityUtils.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/SSLSocketFactoryExtension.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Sleeper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOffUtils.java
*
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Objects.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Charsets.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpIOExceptionHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Throwables.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/webtoken/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Preconditions.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteStreams.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NanoClock.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/LoggingStreamingContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/GenericData.java
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/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/FieldInfo.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/Atom.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpExecuteInterceptor.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/package-info.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/DataMap.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpResponseException.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockLowLevelHttpRequest.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/CharEscapers.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Key.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlObjectParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/rpc2/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/PercentEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/package-info.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/javanet/NetHttpRequest.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/XmlNamespaceDictionary.java
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/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/escape/UnicodeEscaper.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/LowLevelHttpResponse.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/InputStreamContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpTransport.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpUnsuccessfulResponseHandler.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpHeaders.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UrlEncodedParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/xml/atom/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/apache/ContentEntity.java
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*
 /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonToken.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/MockHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonParser.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonGenerator.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/json/JsonHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/package-info.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/BackOff.java
*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Types.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ArrayValueMap.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/json/package-info.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BasicAuthentication.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/NullValue.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpStatusCodes.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/json/JsonString.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Value.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/ExponentialBackOffPolicy.java
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*
/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/xml/atom/package-info.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/HttpTesting.java
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* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractInputStreamContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/Data.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/BackOffPolicy.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/FileContent.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/UriTemplate.java
* /google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/HttpRequestFactory.java

1.552 geo-ip 1.6.12-1

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* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/registry/AbstractRegistryEvent.java
*
/resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/registry/EntryAddedEvent.java
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* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/NamingThreadFactory.java
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* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/Snapshot.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/PartialAggregation.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/SlidingTimeWindowMetrics.java
*
 /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/Metrics.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/SnapshotImpl.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/AbstractAggregation.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/TotalAggregation.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/FixedSizeSlidingWindowMetrics.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/metrics/Measurement.java
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*/

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* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/StringUtils.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/CallableUtils.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/CheckFunctionUtils.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/SupplierUtils.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/CompletionStageUtils.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/ClassUtils.java
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* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/StopWatch.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/EventConsumer.java
* /resilience4j-core-1-7-1-sources-1-jar/io/github/resilience4j/core/EventPublisher.java

1.559 jtoml 1.0.0

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1.561 joda-time 2.7

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
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 licensed.

org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.563 isl 0.19-1

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1.564 jul-to-slf4j 1.7.21

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1.565 futures 3.4.0

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1.566 caffeine 2.9.3

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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/TimerWheel.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Expiry.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncCacheLoader.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CaffeineSpec.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncCache.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Weigher.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LinkedDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Policy.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WriteOrderDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/UnboundedLocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalListener.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheLoader.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Cache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AbstractLinkedDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/CacheStats.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Ticker.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/AccessOrderDeque.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedLocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Caffeine.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/DisabledStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/UnsafeAccess.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/RemovalCause.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/SingleConsumerQueue.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/base/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/CacheWriter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/Node.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/References.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/package-info.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/LocalManualCache.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
*
 /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/package-info.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/SISMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WILMWR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WIMSAR.java
* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/PSAWR.java
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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WISMSR.java

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* /caffeine-2-9-3-sources-jar/com/github/benmanes/caffeine/cache/WSLSAR.java

1.567 python-pip 9.0.1-2.3~ubuntu1.18.04.5

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1.568 commons-compiler 2.6.1

1.569 metrics-health-checks 4.1.0

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1.570 json4s-core 3.2.5

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* /json4s-core-2-10-3-2-5-sources-1-jar/org/json4s/Xml.scala
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1.571 httpcomponents-client 4.4.1

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1.572 objenesis 1.2

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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.574 groovy-json 3.0.8

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#
org.apache.groovy.json.DefaultFastStringServiceFactory
```

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* /groovy-json-3-0-8-sources-1-jar/META-INF/services/org.apache.groovy.json.FastStringServiceFactory
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```

Found in path(s):
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ValueMap.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ValueMapImpl.java
*
 /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Sys.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/JsonParserLax.java

* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Dates.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonParserType.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/CharSequenceValue.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/CharacterSource.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/NumberValue.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Chr.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/BaseJsonParser.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/FastStringService.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonTokenType.java
*
/groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/JsonFastParser.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/CharScanner.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/LazyMap.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/JsonStringDecoder.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonDelegate.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/SimpleCache.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonSlurperClassic.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ValueContainer.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonLexer.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonOutput.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Type.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonBuilder.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/MapItemValue.java
*
/groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ByteScanner.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonToken.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/CharBuf.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/StringEscapeUtils.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/IO.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ArrayUtils.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/LazyValueMap.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ValueList.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonException.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonSlurper.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/DefaultFastStringService.java
*
/groovy-json-3-0-8-sources-1-jar/groovy/json/DefaultJsonGenerator.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/CacheType.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Cache.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonParser.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Value.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/StreamingJsonBuilder.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/FastStringServiceFactory.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/FastStringUtils.java
* /groovy-json-3-0-8-sources-1-jar/groovy/json/JsonGenerator.java

* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/Exceptions.java
* /groovy-json-3-0-8-sources-1-jar/org/apache/groovy/json/internal/ReaderCharacterSource.java

1.575 log4j-over-slf4j 1.7.21

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1.576 amqp-client 4.12.0

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*
* @see MetricsCollector
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* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/tools/jsonrpc/JsonRpcMapper.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/ErrorOnWriteListener.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/SocketChannelConfigurators.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/RetryResult.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/SocketConfigurators.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/WorkPoolFullException.java
*
 /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/RetryContext.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/RetryHandler.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/ConnectionPostProcessor.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/TopologyRecoveryFilter.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/DefaultRetryHandler.java
* /amqp-client-4-12-0-sources-1-
jar/com/rabbitmq/client/impl/recovery/TopologyRecoveryRetryHandlerBuilder.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/tools/jsonrpc/DefaultJsonRpcMapper.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/ConnectionContext.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/DefaultCredentialsProvider.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/BackoffPolicy.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/recovery/TopologyRecoveryRetryLogic.java
*
 /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/CredentialsProvider.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/SslEngineConfigurators.java
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* Micrometer provides out-of-the-box support for report backends like JMX,
* Graphite, Ganglia, Atlas, Datadog, etc. See Micrometer documentation for
* more details.
*
* Note Micrometer requires Java 8 or more, so does this {@link MetricsCollector}.
*
* @see MetricsCollector
* @since 4.3.0
*/
```

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* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/ShutdownSignalException.java

* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/NetworkConnection.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/utility/IntAllocator.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/RpcClientParams.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/UnknownClassOrMethodId.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/impl/ClientVersion.java
* /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/NullTrustManager.java
*
 /amqp-client-4-12-0-sources-1-jar/com/rabbitmq/client/Connection.java
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We set a mandatory attribute for these packages, because we don't\
want them to be visible to just anyone. An importer must specify\
the mandatory attribute for it to be able to import. See \
section #3.6.5 of OSGi R4 spec.\
Why is this required?\
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
By doing this, we allow user have any version of apache-commons lib\
in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
using OSGi.
Sahoo.\
\
-->\
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1.580 jboss-logging 3.1.1.GA

1.580.1 Available under license :

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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a) Accompany
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1.582 jakarta-annotation-api 1.3.5

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Source Code

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##
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1.584 bson-record-codec 4.11.1

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1.585 cglib-nodep 3.1

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=== EOF ===

1.587 python3-asn1crypto 0.24.0-1

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* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
*
 /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

1.589 npth 1.5-3

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1.590 pycryptodome 2.6.1

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~~~~~~

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Last updated: 2009-02-28

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=== EOF ===

1.591 apache-log4j 2.17.1

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1.594 icu 60.2-3ubuntu3.2

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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation
 rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
```

```
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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@heading Doug Rabson

GSS-API mechglue layer.

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Fortuna in libhcrypto

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
for humouring me on.

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Windows support

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lib/hcrypto/test_dh.c

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1.598.1 Available under license :

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* $Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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* $Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo $
*/
```

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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo $
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*
* $Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleNamespaceContext.java
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* $Header$
* $Revision: 1245 $
* $Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
```

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* $Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.java
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* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EvaluateFunction.java
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* $Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/Dom4jXPath.java
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* $Header$
* $Revision: 1386 $
* $Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) $
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* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java
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* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
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*
* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingAxis.java
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```
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* $Header$
* $Revision: 1193 $
* $Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) $
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*
* $Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPlusExpr.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/StartsWithFunction.java
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* $Header$
* $Revision: 1261 $
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* $Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java
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* $Header$
* $Revision: 1332 $
* $Date: 2008-10-18 06:29:28 -0700 (Sat, 18 Oct 2008) $
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* $Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo $
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
*/
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* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.java
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/*
* $Header$
* $Revision: 1277 $
* $Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) $
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* $Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo $
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
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/*
* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
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/*
* $Header$
* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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* $Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java
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* $Header$
* $Revision: 1237 $
* $Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) $
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* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java
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/*

```
* $Header$
* $Revision: 1133 $
* $Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) $
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* $Id: Axis.java 1133 2006-03-30 13:56:36Z elharo $
*/
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java
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* $Header$
* $Revision: 1257 $
* $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingSiblingAxisIterator.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java
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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Header$
* $Revision: 1168 $
* $Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) $
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* $Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java
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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java
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* $Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathReader.java
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* $Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/SimpleFunctionContext.java
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/*
* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingAxisIterator.java
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/*

```
* $Header$
* $Revision: 1157 $
* $Date: 2006-06-03 13:07:37 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/function/ConcatFunction.java
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/*
$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo $

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```
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* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultAbsoluteLocationPath.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java
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* $Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Revision: 1154 $
* $Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) $
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* $Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo $
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* $Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NamespaceUriFunction.java
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* $Revision: 1134 $
* $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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* $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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* $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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* $Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo $
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* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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```

* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternParser.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
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* $Header$
* $Revision: 1128 $
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* $Id: Function.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/Function.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1234 $
* $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
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* $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java
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* $Revision: 1128 $
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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LocalNameFunction.java
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* $Header$
* $Revision: 1302 $
* $Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) $
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* $Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SelfAxisIterator.java
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* $Header$
* $Revision: 1235 $
* $Date: 2006-11-08 09:02:21 -0800 (Wed, 08 Nov 2006) $
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* $Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java
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/*
$Id: Context.java 1219 2006-10-15 21:08:16Z elharo $

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* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
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* $Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java
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* $Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/UnionPattern.java

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*
* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Operator.java
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* $Revision: 1366 $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
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* $Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java
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$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo $

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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnaryExpr.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/BinaryExpr.java
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* $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
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$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo $

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* $Id: Expr.java 1261 2006-11-30 18:49:27Z elharo $
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$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins $

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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/SumFunction.java
No license file was found, but licenses were detected in source scan.
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```
/*
* $Header$
* $Revision: 1232 $
* $Date: 2006-11-08 08:37:59 -0800 (Wed, 08 Nov 2006) $
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* $Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo $
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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```
/*
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java
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* $Revision: 1128 $
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/TranslateFunction.java
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* $Header$
* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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* $Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo $
*/
```

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
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/*
* $Header$
* $Revision: 1226 $
* $Date: 2006-11-08 07:44:33 -0800 (Wed, 08 Nov 2006) $
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* $Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java
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* $Revision: 1128 $
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* $Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java
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* $Header$
* $Revision: 1251 $
* $Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) $
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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
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* $Header$
* $Revision: 1334 $
* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo $
*/
```

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* $Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/NotFunction.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java
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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.java
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* $Id: $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
* /jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java
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/*
$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo $

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java
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* $Header$
* $Revision: 1268 $
* $Date: 2006-12-10 07:32:14 -0800 (Sun, 10 Dec 2006) $
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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultCommentNodeStep.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/LocationPathPattern.java
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* $Header$
* $Revision: 1162 $
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* $Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
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* $Header$
* $Revision: 1258 $
* $Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) $

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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/PredicateSet.java
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* $Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo $
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$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

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* $Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) $
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* $Id: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo $
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Found in path(s):
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*
* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantAxis.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1370 $
* $Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) $
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*
* $Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java
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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java
No license file was found, but licenses were detected in source scan.

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* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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* $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
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* $Revision: 1261 $
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* $Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/TextNodeTest.java
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* $Revision: 1128 $
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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.java
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/*
$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo $

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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1257 $
* $Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) $
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* $Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
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* $Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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*
* $Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LangFunction.java
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/*
* $Header$
* $Revision: 1160 $
* $Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/UnsupportedAxisException.java
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/*
* $Header$
* $Revision: 1253 $
* $Date: 2006-11-09 08:39:19 -0800 (Thu, 09 Nov 2006) $
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* $Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/util/SingletonList.java
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/*
* $Header$
* $Revision: 1156 $
* $Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) $
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* $Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/xom/DocumentNavigator.java
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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo $
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* $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/
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Found in path(s):

* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java
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*
* $Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
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* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
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* $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
No license file was found, but licenses were detected in source scan.

/*
* $Header$
* $Revision: 1248 $
* $Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) $
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*
* $Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/expr/VariableReferenceExpr.java
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/*
$Id: NamedAccessNavigator.java 1128 2006-02-05 21:49:04Z elharo $

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* $Header$
* $Revision: 1364 $
* $Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) $
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* $Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.java
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
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* $Header$
* $Revision: 1128 $
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* $Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java
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* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultDivExpr.java
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* $Header$
* $Revision: 1198 $
* $Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) $
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo $
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* $Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java
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* $Revision: 1325 $
* $Date: 2008-04-26 18:55:05 -0700 (Sat, 26 Apr 2008) $
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* $Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo $
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* $Revision: 1273 $
* $Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) $
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* $Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo $
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*
* $Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

Found in path(s):
* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
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/*

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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/NoNodeTest.java
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* $Revision: 1128 $
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* $Id: Token.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java
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* $Header$
* $Revision: 1128 $
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* $Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/SAXPathEventSource.java
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/function/LastFunction.java
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* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/AllNodeStep.java
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* $Header$
* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
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* $Header$
* $Revision: 1279 $
* $Date: 2007-01-06 04:21:12 -0800 (Sat, 06 Jan 2007) $
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* $Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo $
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* $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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* $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
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* $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Revision: 1241 $
* $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicated.java
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/pattern/PatternHandler.java
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* $Header$
* $Revision: 1335 $
* $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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* $Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.java
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* /jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Verifier.java
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* $Header$
* $Revision: 1255 $
* $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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* $Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1132 $
* $Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) $
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* $Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo $
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* $Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo $
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* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
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* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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* $Revision: 1367 $
* $Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo $
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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultVariableReferenceExpr.java
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* $Revision: 1128 $

* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
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* $Revision: 1228 $
* $Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) $
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
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* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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* $Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo $
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
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* $Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo $
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* $Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAncestorAxis.java
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/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
*
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*/

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* /jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTextNodeStep.java

1.599 xz 5.2.2-1.3

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Corresponding Source from a network server at no charge.

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written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
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1.603 jsr305 1.3.9

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1.605 urllib3 1.22

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Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>

 * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

*
 Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield
 <http://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting
 * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>

* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
* App Engine environment tests.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James
Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
* Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.

* Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
* Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
* Logging efficiency improvements, spelling fixes,
Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors
backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]

1.606 opentracing-noop 0.31.0

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1.607 paranamer 2.5.6

1.608 javax-ws-rs-api 2.0.1

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1.610 jackson-dataformat-yaml 2.12.7

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1.611 packaging 16.8

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1.612 javax-activation 1.2.0

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1.613 jetty 9.4.18.v20190429

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
 * javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.614 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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* Rob Earhart

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1.617 resilience4j-retry 1.7.1

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1.618 shiro-cache 1.6.0

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The implementation for org.apache.shiro.util.SoftHashMap is based
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Certain parts (StringUtils, IpAddressMatcher, etc.) of the source
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1.619 traceroute 1:2.1.0-2

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This package was put together by Matthias Klose <doko@debian.org>.

Upstream source:
ftp.gnu.org:/pub/gnu/readline/readline-4.3.tar.gz.

Author: Per Bothner

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1.622 unzip 6.0-21ubuntu1.1

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- -

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The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
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```
   * MoreFiles
   *
   * A collection of File Manager and related routines
   *
   * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
   * with significant code contributions by Nitin Ganatra
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```
   *  MacBinaryIII.h
   *
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   *
   *  Basic encoding and decoding of Macintosh files to the
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   * ---------------------------------------------------------------------
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```

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```

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May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
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Despite the fact that our "normal" code has been entirely rewritten
and by default
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.623 shiro-crypto-core 1.6.0

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1.624 jakarta xml bind api 2.3.2

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1.625 okhttp 3.12.1

1.626 netty 3.10.5.Final

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1.634 classgraph 4.8.179

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jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessByteBufferReader.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/utils/JarUtils.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/ClasspathElementModule.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/json/JSONReference.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/ClassGraph.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/types/ParseException.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/TypeVariableSignature.java

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/classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/utils/StringUtils.java
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jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/ReferenceTypeSignature.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java
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jar/nonapi/io/github/classgraph/classloaderhandler/ClassGraphClassLoaderHandler.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/ClasspathElement.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/fastzipfilereader/FastZipEntry.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/TypeArgument.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/json/JSONSerializer.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/recycler/RecycleOnClose.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/fastzipfilereader/LogicalZipFile.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/AnnotationParameterValue.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/classloaderhandler/OSGiDefaultClassLoaderHandler.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/Classfile.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/reflection/ReflectionUtils.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/utils/VersionFinder.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/AnnotationClassRef.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/classpath/CallStackReader.java
* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/recycler/Resettable.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/classloaderhandler/URLClassLoaderHandler.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/BaseTypeSignature.java
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* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/Resource.java
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* /classgraph-4-8-179-sources-1-jar/nonapi/io/github/classgraph/json/JSONUtils.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/PotentiallyUnmodifiableList.java
*
/classgraph-4-8-179-sources-1-jar/io/github/classgraph/MethodTypeSignature.java
* /classgraph-4-8-179-sources-1-
jar/nonapi/io/github/classgraph/classloaderhandler/TomcatWebappClassLoaderBaseHandler.java
* /classgraph-4-8-179-sources-1-jar/io/github/classgraph/ClasspathElementZip.java
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1.636 idna 2.6

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Metadata-Version: 1.1
Name: idna
Version: 2.6
Summary: Internationalized Domain Names in Applications (IDNA)
Home-page: https://github.com/kjd/idna
Author: Kim Davies
Author-email: kim@cynosure.com.au
License: BSD-like
Description: Internationalized Domain Names in Applications (IDNA)
==========

Support for the Internationalised Domain Names in Applications
(IDNA) protocol as specified in `RFC 5891 <http://tools.ietf.org/html/rfc5891>`_.
This is the latest version of the protocol and is sometimes referred to as
“IDNA 2008”.

This library also provides support for Unicode Technical Standard 46,
`Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

This acts as a suitable replacement for the “encodings.idna” module that
comes with the Python standard library,
but only supports the
old, deprecated IDNA specification (`RFC 3490 <http://tools.ietf.org/html/rfc3490>`_).

Basic functions are simply executed:

.. code-block:: pycon

Python 3
>>> import idna
>>> idna.encode('.')
b'xn--eckwd4c7c.xn--zckzah'
>>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
.

Python 2
>>> import idna
>>> idna.encode(u'.')
'xn--eckwd4c7c.xn--zckzah'
>>> print idna.decode('xn--eckwd4c7c.xn--zckzah')
.

Packages

The latest tagged release version is published in the PyPI repository:

.. image:: https://badge.fury.io/py/idna.svg
  :target: http://badge.fury.io/py/idna

Installation

To install this library,
you can use pip:

.. code-block:: bash

  $ pip install idna

Alternatively, you can install the package using the bundled setup script:

.. code-block:: bash

  $ python setup.py install

This library works with Python 2.6 or later, and Python 3.3 or later.

Usage

For typical usage, the ``encode`` and ``decode`` functions will take a domain
name argument and perform a conversion to A-labels or U-labels respectively.

.. code-block:: pycon

  # Python 3
  >>> import idna
  >>> idna.encode('.')
  b'xn--eckwd4c7c.xn--zckzah'
  >>> print(idna.decode('xn--eckwd4c7c.xn--zckzah'))
  .

You may use the codec encoding and decoding methods using the
``idna.codec`` module:

.. code-block:: pycon

  # Python 2
  >>> import idna.codec
  >>> print u'.'.encode('idna')

```
xn--80ahd1agd.xn--80akhbyknj4f
>>> print 'xn--80ahd1agd.xn--80akhbyknj4f'.decode('idna')
.
```

Conversions can be applied at a per-label basis using the ``ulabel`` or ``alabel``
functions if necessary:

.. code-block:: pycon

```
# Python 2
>>> idna.alabel(u'')
'xn--0zwm56d'
```

Compatibility Mapping (UTS #46)
++++++++++++++++++++++++++++++

As described in `RFC 5895 <http://tools.ietf.org/html/rfc5895>`_, the IDNA
specification no longer normalizes input from different potential ways a user
may input a domain name. This functionality, known as a “mapping”, is now
considered by the specification to be a local user-interface issue distinct
from IDNA conversion functionality.

This library provides one such mapping, that was developed by the Unicode
Consortium. Known as `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_,
it provides for both a regular mapping for typical applications, as well as
a transitional mapping to help migrate from older IDNA 2003 applications.

For example, “Königsgäßchen” is not a permissible label as *LATIN CAPITAL
LETTER K* is not allowed (nor are capital letters in general). UTS 46 will
convert this into lower case prior to applying the IDNA conversion.

.. code-block:: pycon

```
# Python 3
>>> import idna
>>> idna.encode(u'Königsgäßchen')
...
idna.core.InvalidCodepoint: Codepoint U+004B at position 1 of 'Königsgäßchen' not allowed
>>> idna.encode('Königsgäßchen', uts46=True)
b'xn--knigsgchen-b4a3dun'
>>> print(idna.decode('xn--knigsgchen-b4a3dun'))
 königsgäßchen
```

Transitional processing provides conversions to help transition from the older
2003 standard to the current standard. For example, in the original IDNA
specification, the *LATIN SMALL LETTER SHARP S* (ß) was converted into two
LATIN SMALL LETTER S (ss), whereas in the current IDNA specification this
conversion is not performed.

.. code-block:: pycon

  # Python 2
  >>> idna.encode(u'Königsgäßchen', uts46=True, transitional=True)
  'xn--knigsgsschen-lcb0w'

Implementors should use transitional processing with caution, only in rare
cases where conversion from legacy labels to current labels must be performed
(i.e. IDNA implementations that pre-date 2008). For typical applications
that just need to convert labels, transitional processing is unlikely to be
beneficial and could
produce unexpected incompatible results.

``encodings.idna`` Compatibility
++++++++++++++++++++++++++++++++

Function calls from the Python built-in ``encodings.idna`` module are
mapped to their IDNA 2008 equivalents using the ``idna.compat`` module.
Simply substitute the ``import`` clause in your code to refer to the
new module name.

Exceptions

All errors raised during the conversion following the specification should
raise an exception derived from the ``idna.IDNAError`` base class.

More specific exceptions that may be generated as ``idna.IDNABidiError``
when the error reflects an illegal combination of left-to-right and right-to-left
characters in a label; ``idna.InvalidCodepoint`` when a specific codepoint is
an illegal character in an IDN label (i.e. INVALID); and ``idna.InvalidCodepointContext``
when the codepoint
is illegal based on its positional context (i.e. it is CONTEXTO
or CONTEXTJ but the contextual requirements are not satisfied.)

Building and Diagnostics

The IDNA and UTS 46 functionality relies upon pre-calculated lookup tables for
performance. These tables are derived from computing against eligibility criteria
in the respective standards. These tables are computed using the command-line
script ``tools/idna-data``.

This tool will fetch relevant tables from the Unicode Consortium and perform the
required calculations to identify eligibility. It has three main modes:

* ``idna-data make-libdata``. Generates ``idnadata.py`` and ``uts46data.py``,

the pre-calculated lookup tables using for IDNA and UTS 46 conversions. Implementors who wish to track this library against a different Unicode version may use this tool

to manually generate a different version of the ``idnadata.py`` and ``uts46data.py`` files.

* ``idna-data make-table``. Generate a table of the IDNA disposition (e.g. PVALID, CONTEXTJ, CONTEXTO) in the format found in Appendix B.1 of RFC 5892 and the pre-computed tables published by `IANA <http://iana.org/>`_.

* ``idna-data U+0061``. Prints debugging output on the various properties associated with an individual Unicode codepoint (in this case, U+0061), that are used to assess the IDNA and UTS 46 status of a codepoint. This is helpful in debugging or analysis.

The tool accepts a number of arguments, described using ``idna-data -h``. Most notably, the ``--version`` argument allows the specification of the version of Unicode to use in computing the table data. For example, ``idna-data --version 9.0.0 make-libdata`` will generate library data against Unicode
9.0.0.

Note that this script requires Python 3, but all generated library data will work in Python 2.6+.

Testing

The library has a test suite based on each rule of the IDNA specification, as well as tests that are provided as part of the Unicode Technical Standard 46, `Unicode IDNA Compatibility Processing <http://unicode.org/reports/tr46/>`_.

The tests are run automatically on each commit at Travis CI:

.. image:: https://travis-ci.org/kjd/idna.svg?branch=master
  :target: https://travis-ci.org/kjd/idna

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: System Administrators
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming
 Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
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Classifier: Topic :: Internet :: Name Service (DNS)
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Utilities

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* /idna-2-6-1-tar-gz/idna-2.6/PKG-INFO
* /idna-2-6-1-tar-gz/idna-2.6/idna.egg-info/PKG-INFO
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"""
A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology,
known as IDNA 2008, can generate materially different results to the
previous standard. The library can act as a drop-in replacement for
the "encodings.idna" module.
"""

```
import io, sys
from setuptools import setup


def main():

  python_version = sys.version_info[:2]
  if python_version < (2,6):
     raise SystemExit("Sorry, Python 2.6 or newer required")

  package_data = {}
  exec(open('idna/package_data.py').read(), package_data)

  arguments = {
     'name': 'idna',
     'packages': ['idna'],
     'version': package_data['__version__'],
     'description': 'Internationalized Domain Names in Applications (IDNA)',
     'long_description': io.open("README.rst", encoding="UTF-8").read(),
     'author': 'Kim Davies',
     'author_email': 'kim@cynosure.com.au',
      'license': 'BSD-like',
     'url': 'https://github.com/kjd/idna',
     'classifiers': [
        'Development Status :: 5 - Production/Stable',
        'Intended Audience :: Developers',
        'Intended Audience :: System Administrators',
```

```
          'License :: OSI Approved :: BSD License',
          'Operating System :: OS Independent',
          'Programming Language :: Python',
          'Programming Language :: Python :: 2.6',
          'Programming Language :: Python :: 2.7',
          'Programming Language :: Python :: 3',
          'Programming Language :: Python :: 3.3',
          'Programming Language :: Python :: 3.4',
          'Programming Language :: Python :: 3.5',
          'Programming Language :: Python :: 3.6',
          'Topic :: Internet :: Name Service (DNS)',
          'Topic :: Software Development :: Libraries :: Python Modules',
          'Topic :: Utilities',
      ],
      'test_suite':
 'tests',
  }

  setup(**arguments)

if __name__ == '__main__':
  main()
```

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* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
*
 /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
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1.639 nghttp2 1.30.0-1ubuntu1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1

set style fill solid border -1
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1.640 curl 7.58.0-2ubuntu3.16

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1.641 dumb-init 1.2.6-cisco

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
 Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
 Original author of sensord.
* Bob Schlaermann
 Dynamic chip feature detection (a.k.a. generic chip support) in
 libsensors and sensors.
* Mark M. Hoffman
 Many improvements to the libsensors configuration file scanner.
* Jean Delvare
 New libsensors API, and migration of sensors and sensord thereto.
 Many optimizations in libsensors and sensors.
 Configuration file converter.
 Rewrite of sensors-detect.
 Support for multiple configuration files in libsensors.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes
passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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with the library, after making
changes to the library and recompiling
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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the work with a written offer, valid for at
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

```
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* Marko Kiiskila carnil@cs.tut.fi
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