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# 1.5 okio 1.13.0

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```

```
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSource.java
```

```
* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/HashingSink.java
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* /opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Options.java
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*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Util.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Buffer.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Segment.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSource.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSource.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Timeout.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Sink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentPool.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/DeflaterSink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Okio.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/AsyncTimeout.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSource.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/InflaterSource.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/BufferedSink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/Source.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/RealBufferedSink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/ForwardingSink.java
*/opt/cola/permits/1000000590_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/GzipSource.java
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\* /opt/cola/permits/1000000590\_1646171445.35/0/okio-1-13-0-sources-2-jar/okio/SegmentedByteString.java

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## 1.6 error\_prone\_annotations 2.1.2

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\* /opt/cola/permits/1170873670\_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/ForOverride.java

\* /opt/cola/permits/1170873670\_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

\* /opt/cola/permits/1170873670\_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java

\* /opt/cola/permits/1170873670\_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-jar/com/google/errorprone/annotations/IncompatibleModifiers.java

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 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/DoNotMock.java
 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/FormatString.java
 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/FormatMethod.java
 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/MustBeClosed.java
 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/RestrictedApi.java
 * /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/CompatibleWith.java
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jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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* /opt/cola/permits/1170873670_1622738640.85/0/error-prone-annotations-2-1-2-sources-4-
jar/com/google/errorprone/annotations/DoNotCall.java
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## 1.7 xstream 1.2.2

## 1.8 bean-validator 2.5.0-b05

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## 1.9 owlapi-api 4.2.7

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## 1.10 scala-reflect 2.10.0

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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/PEMEncodedKeyParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/impl/ECDSAProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/bc/BouncyCastleProviderSingleton.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/jwk/JWKMetadata.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/AlgorithmFamily.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/JWSVerifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/KeySourceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/RSASSASigner.java  
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jar/com/nimbusds/jose/util/Base64URL.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/KeyLengthException.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/X25519Encrypter.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jwt/proc/ClockSkewAware.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/util/ResourceRetriever.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-

jar/com/nimbusds/jose/jwk/KeyUse.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/RSAEncrypter.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/proc/SimpleSecurityContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/AESDecrypter.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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jar/com/nimbusds/jwt/JWTClaimsSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/proc/ConfigurableJOSEProcessor.java  
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jar/com/nimbusds/jose/jca/package-info.java  
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jar/com/nimbusds/jose/jwk/KeyOperation.java  
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jar/com/nimbusds/jwt/PlainJWT.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/JWEObject.java  
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jar/com/nimbusds/jose/jwk/source/ImmutableSecret.java  
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jar/com/nimbusds/jose/Header.java  
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jar/com/nimbusds/jose/proc/JWEKeySelector.java  
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jar/com/nimbusds/jose/Requirement.java  
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jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java  
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jar/com/nimbusds/jose/crypto/RSADecrypter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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jar/com/nimbusds/jose/RemoteKeySourceException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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jar/com/nimbusds/jose/JWSAlgorithm.java  
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jar/com/nimbusds/jose/crypto/PasswordBasedDecrypter.java  
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jar/com/nimbusds/jose/Payload.java  
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jar/com/nimbusds/jose/util/JSONObjectUtils.java  
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jar/com/nimbusds/jose/jwk/SecretJWK.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/PlainObject.java  
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jar/com/nimbusds/jwt/JWT.java  
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jar/com/nimbusds/jose/jwk/OctetSequenceKey.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/jwk/JWKSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/util/Base64.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/crypto/PasswordBasedEncrypter.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/jwk/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/jwk/ThumbprintUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jose/JOSEObjectType.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-  
jar/com/nimbusds/jwt/JWTParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java  
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jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java
* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
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* /opt/ws_local/PERMITS_SQL/1028436227_1594249084.99/0/nimbus-jose-jwt-8-9-sources-
jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
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\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Signer.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/util/Base64Codec.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/Ed25519Verifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1028436227\_1594249084.99/0/nimbus-jose-jwt-8-9-sources-jar/com/nimbusds/jose/crypto/X25519Decrypter.java

## 1.12 jersey-media-multipart 2.24.1

## 1.13 unirest-java 1.4.5

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## 1.14 reflections 0.9.9

## 1.15 google-http-client 1.15.0-rc

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jar/com/google/api/client/util/LoggingInputStream.java
* /opt/ws_local/PERMITS_SQL/1071204643_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-
jar/com/google/api/client/util/StreamingContent.java
```

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/util/ByteCountingOutputStream.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/javanet/MockURLConnection.java

\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/testing/http/FixedClock.java

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\* /opt/ws\_local/PERMITS\_SQL/1071204643\_1594893854.39/0/google-http-client-1-15-0-rc-sources-1-jar/com/google/api/client/http/AbstractHttpContent.java  
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## 1.16 jta 1.1.0

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 * $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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLocationPath.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 $
*/
```

Found in path(s):

```
*/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AdditiveExpr.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 \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/ext/EvaluateFunction.java

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

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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 \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java

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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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultFunctionCallExpr.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 \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenException.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header\$  
\* \$Revision: 1337 \$  
\* \$Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) \$  
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\* \$Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo \$\br/>\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathFactory.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header\$\br/>\* \$Revision: 1128 \$\br/>\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$\br/>\*

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

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.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):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/base/XPathReader.java
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/*
* $Header$
* $Revision: 1300 $
* $Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) $
*

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* $Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo $
*/

Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicate.java
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/*
* $Header$

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

```

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Found in path(s):
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableNamespaceAxis.java

```

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 * $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):

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\* \$Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NotFunction.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: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultTextNodeStep.java

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\* \$Revision: 1157 \$

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\* \$Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo \$

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

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FloorFunction.java

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\$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo \$

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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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualityExpr.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: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

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\* \$Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo \$

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\* \$Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo \$  
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\* \$Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
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jar/org/jaxen/util/DescendantOrSelfAxisIterator.java

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 \* \$Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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* $Id: Step.java 1268 2006-12-10 15:32:14Z elharo $
*/

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* $Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo $
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* $Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.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 $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/NamespaceNode.java

```

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

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

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultExpr.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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java  
No license file was found, but licenses were detected in source scan.

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

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathHandler.java  
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* $Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java
No license file was found, but licenses were detected in source scan.
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```
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\* /opt/cola/permits/1000966325\_1646171545.57/0/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: SingleObjectIterator.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: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$

\*/

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\* \$Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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Found in path(s):

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\* \$Revision: 1128 \$

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

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/SAXPathEventSource.java

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\* \$Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo \$  
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 \* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
 jar/org/jaxen/expr/DefaultRelativeLocationPath.java  
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* $Id: Operator.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Operator.java
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* $Date: 2008-04-26 18:56:10 -0700 (Sat, 26 Apr 2008) $
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*
* $Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FilterExpr.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $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 $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultTruthExpr.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):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/xom/XOMXPath.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):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
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```
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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 $
 */
```

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathFunctionContext.java

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\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\* \$Id: DefaultAbsolutePath.java 1261 2006-11-30 18:49:27Z elharo \$  
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\*/opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAbsolutePath.java

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\* \$Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/DefaultNavigator.java  
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\* \$Revision: 1367 \$

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\* \$Id: DefaultVariableReferenceExpr.java 1367 2012-05-05 16:31:33Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Revision: 1162 \$

\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
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\*  
\* \$Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/SubstringBeforeFunction.java

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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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingAxisIterator.java

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\$Id: NamedAccessNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Revision: 1128 \$

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

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.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 $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java
```

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```
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* $Header$
* $Revision: 1396 $
* $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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Revision: 1128 \$

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

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\* \$Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo \$

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* $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
*/

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\* \$Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo \$

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\* \$Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultModExpr.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$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 $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/IdFunction.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $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 \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultProcessingInstructionNodeStep.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: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
 */
```

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableSelfAxis.java

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\* \$Header\$

\* \$Revision: 1128 \$

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

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/Token.java  
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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):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.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 $
*/
```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/XPathExpr.java
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\* \$Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Revision: 1159 \$

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\* \$Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/UnresolvableException.java  
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\* \$Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

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\* \$Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/SimpleNamespaceContext.java

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\* \$Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$

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\*  
\* \$Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/VariableReferenceExpr.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: NameTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NameTest.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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

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

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultArithExpr.java
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/RoundFunction.java
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* $Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/TranslateFunction.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 $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/XPathSyntaxException.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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java

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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 $
```

\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java

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

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTypeTest.java  
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\* \$Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
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```
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* $Header$  
* $Revision: 1162 $  
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $  
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\* \$Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/CountFunction.java

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

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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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\* \$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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/SumFunction.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: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/NamespaceUriFunction.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: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultOrExpr.java  
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\*  
\* \$Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/ext/LocaleFunctionSupport.java  
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\* \$Revision: 1128 \$  
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*
* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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```

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/*
* $Header$
* $Revision: 1252 $
* $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
*
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*

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*
* $Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/BinaryExpr.java

```

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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 $
*/

```

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/FunctionCallExpr.java
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```
/*
```

```

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

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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/XPathReader.java  
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\* \$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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\* \$Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Revision: 1161 \$

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\* \$Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/javabean/JavaBeanXPath.java  
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\* \$Revision: 1128 \$

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

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/TrueFunction.java

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\* \$Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo \$

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\* \$Revision: 1261 \$

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\* \$Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

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\$Id: Context.java 1219 2006-10-15 21:08:16Z elharo \$

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

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\* \$Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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\* \$Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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* $Id: UpperFunction.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: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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*
* $Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultCommentNodeStep.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 $
*/

```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleVariableContext.java
```

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

```
/*
 * $Header$
 * $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 $
```

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/DocumentNavigator.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):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/JDOMXPath.java  
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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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jar/org/jaxen/function/SubstringFunction.java

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\* \$Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo \$

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\* \$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo \$

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/dom4j/DocumentNavigator.java

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\* \$Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo \$

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\* \$Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Revision: 1162 \$  
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\* \$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
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Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableParentAxis.java  
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* $Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo $
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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NamespaceTest.java
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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
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```

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```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
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```

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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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Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultLiteralExpr.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
*
* =====
*

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* $Id: Expr.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Expr.java

```

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* $Revision: 1261 $
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* $Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/
```

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultFilterExpr.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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java  
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\* \$Id: DefaultDivExpr.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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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/FalseFunction.java
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```

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/*

```

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

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```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/StringFunction.java
```

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 * $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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\* \$Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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* $Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/
```

Found in path(s):

```
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\* \$Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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\* \$Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo \$

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\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/AncestorOrSelfAxisIterator.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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/SimpleFunctionContext.java  
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\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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\* \$Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultUnionExpr.java  
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\* \$Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/LocalNameFunction.java  
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\* \$Header\$  
\* \$Revision: 1261 \$  
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* $Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.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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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/PredicateSet.java

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* $Revision: $
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* $Id: $
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- \* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenRuntimeException.java
- \* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenConstants.java

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

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\* \$Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo \$  
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\* \$Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo \$  
\*/

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo \$

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

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.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: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo \$  
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Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/NamespaceContext.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):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/NumberExpr.java  
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 \* \$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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.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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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnionExpr.java
```

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* $Header$
* $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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/\*  
 \* \$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 $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/AllNodeStep.java

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* $Revision: 1225 $
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* $Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/CommentNodeStep.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 $
*/

```

Found in path(s):

```
* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DOMXPath.java
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 * $Header$
 * $Revision: 1247 $
 * $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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/UnaryExpr.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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\* \$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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/dom/DocumentNavigator.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: TokenTypes.java 1334 2008-11-29 17:58:48Z elharo \$

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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/TokenTypes.java

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

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/jdom/XPathNamespace.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 \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/base/XPathLexer.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: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java  
No license file was found, but licenses were detected in source scan.

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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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/MultiplicativeExpr.java  
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\$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Header\$

\* \$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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/FunctionCallException.java  
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\* \$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 \$  
\*/

Found in path(s):  
\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultMultiplicativeExpr.java  
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\* \$Header\$  
\* \$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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/PathExpr.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: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
 \*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
 jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

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Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.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 $
*/

```

Found in path(s):

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* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorAxisIterator.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: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Header$
* $Revision: 1162 $
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*
* $Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java
No license file was found, but licenses were detected in source scan.

```

```
/*
 * $Header$
 * $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 $
 */
```

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
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\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\* \$Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

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\* \$Revision: 1128 \$

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

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/AnyNodeTest.java  
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\* \$Id: NoNodeTest.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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 * $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 $
```

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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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\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/TextNodeStep.java  
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/*
 * $Header$
 * $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 \$  
\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.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: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

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\$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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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 $  
*/
```

Found in path(s):

```
*/opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/DescendantAxisIterator.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 \$

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/XPathSyntaxException.java

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\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1000966325\_1646171545.57/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/LocationPathPattern.java

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*
* $Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/cola/permits/1000966325_1646171545.57/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultNumberExpr.java

```

## 1.22 jsonld-java 0.5.0

## 1.23 yang-common 0.8.1-Beryllium-SR1

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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONObject.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONNavi.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONArray.java  
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\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/FakeMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAwareEx.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONValue.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/ParseException.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JStylerObj.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONUtil.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserString.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/JsonReader.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserReader.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/BeansMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStreamAware.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserBase.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/DefaultMapperOrdered.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParserMemory.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/ArraysMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/writer/CollectionMapper.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/parser/JSONParser.java  
\* /opt/cola/permits/1177952445\_1625583906.57/0/json-smart-2-3-sources-4-

```
jar/net/minidev/json/writer/CompressorMapper.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/DefaultMapperCollection.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/writer/JsonReaderI.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONStyle.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserInputStream.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-jar/net/minidev/json/JSONAware.java
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
jar/net/minidev/json/parser/JSONParserByteArray.java
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```
* /opt/cola/permits/1177952445_1625583906.57/0/json-smart-2-3-sources-4-
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```

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## 1.29 joda-convert 1.2

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# 1.30 swagger-jersey2-jaxrs 1.5.1

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```
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```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/connection/AsyncConnection.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/UsageTrackingInternalConnection.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/operation/FsyncUnlockOperation.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/WriteProtocol.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/MongoClientException.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/connection/ClusterType.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitorFactory.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/async/AsyncAggregateResponseBatchCursor.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/SnappyCompressor.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/event/ServerMonitorListenerMulticaster.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/operation/BsonDocumentWrapperHelper.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/connection/netty/NettyStream.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/event/CommandSucceededEvent.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/client/model/InsertManyOptions.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
```

jar/com/mongodb/client/model/geojson/codecs/MultiPointCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/client/model/geojson/codecs/GeoJsonCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/connection/ClusterClock.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/client/model/ValidationLevel.java  
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jar/com/mongodb/operation/CommandReadOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/operation/AsyncSingleBatchQueryCursor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/event/ClusterListenerMulticaster.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/operation/AsyncOperationExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/connection/ServerId.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/MongoCursorNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/session/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/operation/CurrentOpOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/validator/NoOpFieldNameValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/binding/SingleConnectionReadBinding.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/WriteConcern.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/event/ClusterDescriptionChangedEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/client/model/BsonField.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/event/ConnectionClosedEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/connection/ClusterSettings.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/operation/GroupOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/connection/ResponseBuffers.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/connection/BulkWriteBatchCombiner.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/connection/SslHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/connection/Connection.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/internal/connection/OpCode.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-  
jar/com/mongodb/ClientEncryptionSettings.java

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jar/com/mongodb/client/model/AggregationLevel.java
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```
/**
 * Returns an array containing all of the elements in this deque, in
 * proper sequence (from first to last element).
 *
 * <p>The returned array will be "safe" in that no references to it are
```

```
* maintained by this deque. (In other words, this method must allocate
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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jar/com/mongodb/internal/authentication/SaslPrep.java
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- \*/

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- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/util/Util.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java

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jar/com/mongodb/connection/netty/ReadTimeoutHandler.java
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*/
```

```
/**
 * Writes a sequence of bytesProduced to this channel from a subsequence of the
 * given buffers.
 *
 * <p>
 * See { @link GatheringByteChannel#write(ByteBuffer[], int, int) } for more
 * details of the meaning of this signature.
 *
 * <p>
 * This method behaves slightly different than the interface specification,
```



```
* @throws WouldBlockException    if the channel is in non-blocking mode and the IO operation
*
*                                cannot be completed immediately
* @throws NeedsTaskException      if the channel is not configured to run tasks automatically
*
*                                and a task needs to be executed to complete the operation
* @throws SSLException            if the { @link SSLEngine } throws a SSLException
* @throws IOException              if the underlying channel throws an IOException
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
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* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/annotations/Immutable.java
* /opt/ws_local/PERMITS_SQL/1084247307_1598436429.19/0/mongodb-driver-core-3-12-4-sources-
jar/com/mongodb/annotations/ThreadSafe.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ReadConcernHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/AbortTransactionOperation.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/WriteConcernHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/CommitTransactionOperation.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNull.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/operation/ServerVersionHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/NonNullApi.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/operation/TransactionOperation.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/TransactionOptions.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247307\_1598436429.19/0/mongodb-driver-core-3-12-4-sources-jar/com/mongodb/lang/Nullable.java

## 1.32 metrics-json 3.1.0

## 1.33 jsr305 1.3.9

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# 1.34 yang-parser-impl 0.8.4-Beryllium-SR4

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/RuleBuildContext.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/dsl/DSLMapping.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/FunctionImportDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/dsl/DSLMappingParseException.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/CollectBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/PackageBuildContext.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELEvalBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/AccumulateImportDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/dsl/DSLMappingEntry.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/dsl/DSLMappingFile.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/GroupElementBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/java/JavaRuleClassBuilder.java

```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ImportDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/RuleConditionBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/DefaultDSLMapping.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dsl/AntlrDSLMappingEntry.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaAccumulateBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/PatternBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/ForallBuilder.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/GlobalDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/ForallDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELFromBuilder.java
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*/
```

```
package foo
```

```
expander foo
```

```
rule "new rule"
```

```
  activation-group "boo"
```

```
  when
```

```
    line 1
```

```
    line 2
```

```
  then
```

```
    line 3
```

end

Found in path(s):

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/rule1.drl

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Found in path(s):

```
*/opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/ConfigurableSeverityResult.java
*/opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateFunction.java
*/opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateProcess.java
*/opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DuplicateRule.java
*/opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/compiler/DroolsErrorWrapper.java
```

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FromDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/RestrictionConnectiveDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FieldTemplateDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ConnectiveDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/DroolsToken.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/osgi/Activator.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/MVELEExprDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieModuleCacheHelper.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/DeclarativeInvokerDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ProcessBuilderFactoryService.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/AccessorDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/FactTemplateDescr.java

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/PatternDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/QualifiedIdentifierRestrictionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-

jar/org/drools/compiler/lang/descr/FieldConstraintDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/PredicateDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/RestrictionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/BindingDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/LiteralRestrictionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/ParseException.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/OrDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/CollectDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/ExprConstraintDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/QueryDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/VariableRestrictionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/FunctionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/NotDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/ExpanderException.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/Restriction.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/ReturnValueRestrictionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/dsl/MappingError.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/GeneralParseException.java

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- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationCache.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationBuilder.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardFactory.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/builder/impl/KieRepositoryImpl.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassHierarchyManager.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/api/impl/FieldDescrBuilderImpl.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableFactory.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/ResourceConversionResult.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedScoreCardProvider.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuidedDecisionTableProvider.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/TypeDeclarationConfigurator.java
- \* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/builder/impl/ClassDefinitionFactory.java

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/xml/DependencyFilter.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kproject/models/RuleTemplateModelImpl.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/Annotated.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/GuiTemplateProvider.java

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/RuleHandler.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/dsl/DefaultExpanderResolver.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/RuleBuilder.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/ExistsDescr.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/lang/descr/EvalDescr.java

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\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/AccumulateHelperHandler.java

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/compiler/xml/rules/PatternHandler.java

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jar/org/drools/compiler/compiler/RuleBuildWarning.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/util/PackageBuilderUtil.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/DRL5Lexer.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/kie/builder/impl/event/AbstractKieServicesEventListener.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/builder/impl/TypeDeclarationFactory.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaContainerBlockDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/EntryPointBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/kie/builder/impl/ZipKieModule.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/java/JavaFunctionBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/api/impl/AnnotationDescrBuilderImpl.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/api/PackageDescrBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/api/impl/AttributeDescrBuilderImpl.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/PackageDescrDumper.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/kie/builder/impl/AbstractKieModule.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/descr/ExpressionDescr.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/DialectUtil.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/java/JavaDialectSession.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/compiler/AnalysisResult.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/compiler/BoundIdentifiers.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/lang/DroolsUnexpectedAnnotationException.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/ConsequenceBuilder.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-  
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaWhileBlockDescr.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/EclipseJavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JavaCompilerSettings.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/CompilationResult.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JavaCompilerFactory.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/problems/CompilationProblem.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JaninoJavaCompilerSettings.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JaninoJavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/AbstractJavaCompiler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/JaninoCompilationProblem.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/EclipseCompilationProblem.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/problems/CompilationProblemHandler.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/readers/ResourceReader.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/commons/jci/compiler/EclipseJavaCompilerSettings.java
```

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/stores/ResourceStore.java  
\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/commons/jci/readers/MemoryResourceReader.java  
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```

Found in path(s):

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/kie/util/ChangeSetBuilder.java  
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*/
```

Found in path(s):

\* /opt/cola/permits/1114653502\_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-jar/org/drools/compiler/rule/builder/dialect/mvel/MVELReturn ValueBuilder.java  
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 *
 * Created on Jun 25, 2007
 */
```

Found in path(s):

```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/MultiPatternDestinationDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/PatternSourceDescr.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/descr/PatternDestinationDescr.java
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 * Created on Jun 18, 2007
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```

Found in path(s):

```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/JavaAnalysisResult.java
```

```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/mvel/MVELAnalysisResult.java
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/rule/builder/dialect/java/parser/JavaLocalDeclarationDescr.java
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```

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```
* /opt/cola/permits/1114653502_1607543485.4/0/drools-compiler-6-5-0-final-sources-1-
jar/org/drools/compiler/lang/dscr/WindowDeclarationDescr.java
```

## 1.36 mibble-commercial-parser 2.9.3

### 1.36.1 Available under license :

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

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Working Group Chair:

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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.

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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 HIHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

```
hlHostControlNIDroppedFrames.1"
```

```
INDEX { hlHostControlIndex }
```

```
::= { hlHostControlTable 1 }
```

```
HIHostControlEntry ::= SEQUENCE {
```

```
hlHostControlIndex Integer32,
```

```
hlHostControlDataSource DataSource,
```

```
hlHostControlNIDroppedFrames Counter32,
```

```
hlHostControlNIInserts Counter32,
```

```
hlHostControlNIDeletes Counter32,
```

```
hlHostControlNIMaxDesiredEntries Integer32,
```

```
hlHostControlAIDroppedFrames Counter32,
```

```
hlHostControlAIInserts Counter32,
```

```
hlHostControlAIDeletes Counter32,
```

```
hlHostControlAIMaxDesiredEntries 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 }

#### hlHostControlNIDroppedFrames 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 }

#### hlHostControlNIInserts 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 hlHostControlNIDeletes from hlHostControlNIInserts."

::= { hlHostControlEntry 4 }

#### hlHostControlNIDeletes 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  
hlHostControlNIDeletes from hlHostControlNIInserts."

::= { hlHostControlEntry 5 }

hlHostControlNIMaxDesiredEntries 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 }

hlHostControlAIDroppedFrames 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 }

#### hlHostControlAllInserts 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 hlHostControlAllDeletes from hlHostControlAllInserts."

::= { hlHostControlEntry 8 }

#### hlHostControlAllDeletes 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  
hlHostControlAIDeletes from hlHostControlAllInserts."

::= { hlHostControlEntry 9 }

hlHostControlAIMaxDesiredEntries 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."

::= { nIHostEntry 6 }

#### nIHostOutMacNonUnicastPkts 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 nIHostTable. 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."

::= { nIHostEntry 7 }

#### nIHostCreateTime 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."

::= { nIHostEntry 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 hIMatrixControlTable also has objects that control optional aIMatrixTables, implementation of the aIMatrixTables is not required to fully implement this group.

#### hIMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HIMatrixControlEntry

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

hlMatrixControlNIDroppedFrames.1"

```
INDEX { hlMatrixControlIndex }
```

```
::= { hlMatrixControlTable 1 }
```

```
HlMatrixControlEntry ::= SEQUENCE {
```

```
    hlMatrixControlIndex          Integer32,
```

```
    hlMatrixControlDataSource      DataSource,
```

```
    hlMatrixControlNIDroppedFrames Counter32,
```

```
    hlMatrixControlNIInserts      Counter32,
```

```
    hlMatrixControlNIDeletes      Counter32,
```

```
    hlMatrixControlNIMaxDesiredEntries Integer32,
```

```
    hlMatrixControlAIDroppedFrames Counter32,
```

```
    hlMatrixControlAIInserts      Counter32,
```

```
    hlMatrixControlAIDeletes      Counter32,
```

```
    hlMatrixControlAIMaxDesiredEntries 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 }

hlMatrixControlNIDroppedFrames 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 hlMatrixControlNIDeletes from hlMatrixControlNIInserts."

::= { hlMatrixControlEntry 5 }

#### hlMatrixControlNIMaxDesiredEntries 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 }

#### hlMatrixControlAIDroppedFrames 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 }
```

hlMatrixControlAllInserts 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 hlMatrixControlAllDeletes from hlMatrixControlAllInserts."

```
::= { hlMatrixControlEntry 8 }
```

hlMatrixControlAllDeletes 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 hlMatrixControlAIDeletes from hlMatrixControlAIInserts."

::= { hlMatrixControlEntry 9 }

#### hlMatrixControlAIMaxDesiredEntries 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."

::= { hMatrixControlEntry 11 }

hMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this hMatrixControlEntry.

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 nMatrixSDTable, nMatrixDSTable, alMatrixSDTable, and alMatrixDSTable shall be deleted by the agent."

::= { hMatrixControlEntry 12 }

nMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NMatrixSDEntry  
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 NIMatrixDSEntry

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),  
nlMatrixTopNHHighCapacityPkts(3),  
nlMatrixTopNHHighCapacityOctets(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 nlMatrixTopNHHighCapacityTable 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 NIMatrixTopNEntry

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 NIMatrixTopNEntry

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 }

NIMatrixTopNEntry ::= 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 }

#### probeDownloadTFTPSTServer 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 probeDownloadTFTPSTServer 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,  
    hlHostControlNIDroppedFrames, hlHostControlNIInserts,  
    hlHostControlNIDeletes,  
    hlHostControlNIMaxDesiredEntries,  
    hlHostControlAIDroppedFrames, hlHostControlAIInserts,  
    hlHostControlAIDeletes,  
    hlHostControlAIMaxDesiredEntries, 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,  
    hlMatrixControlNIDroppedFrames,  
    hlMatrixControlNIInserts, hlMatrixControlNIDeletes,  
    hlMatrixControlNIMaxDesiredEntries,  
    hlMatrixControlAIDroppedFrames,  
    hlMatrixControlAIInserts, hlMatrixControlAIDeletes,  
    hlMatrixControlAIMaxDesiredEntries,  
    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):
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-
MIB
No license file was found, but licenses were detected in source scan.

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,  $2^{L-1}$  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),  
hdl1822(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 invalidating the corresponding entry in the atTable object. That is, it effectively dissociates 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 datagrams 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 reassembled."

::= { ip 15 }

#### ipReasmFails OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The number of failures detected by the IP reassembly 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 disassociates 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
    disassociates 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 }

snmpOutTooBig 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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-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  
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#### 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,

docsIfSigQMicrowreflections Integer32,

docsIfSigQEqualizationData DocsEqualizerData,

```
docsIfSigQExtUnerrored    Counter64,  
docsIfSigQExtCorrected    Counter64,  
docsIfSigQExtUncorrectable 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 }
```

docsIfSigQUnerrored 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 }
```

docsIfSigQCorrected 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 }

docsIfSigQExtUnerrored 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 docsIfSigQUnerrored.  
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 }

#### docsIfCmStatusRangingAborted 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,
    docsIfCmtsStatusRangingAbortedds 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 }

docsIfCmtsStatusRangingAbortedds 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 "TenthdBmV"

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.

registeredBPPIinitializing(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 }

docsIfCmtsCmStatusUnerrored 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 =  
 $(100 * (\text{data bytes} / \text{raw bytes}))$

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..86000000)

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,  
docsIfSigQUnerrored,  
docsIfSigQCorrected,  
docsIfSigQUncorrectable,  
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,  
docsIfCmStatusLostSynes,  
docsIfCmStatusInvalidMaps,  
docsIfCmStatusInvalidUcids,  
docsIfCmStatusInvalidRangingResponses,  
docsIfCmStatusInvalidRegistrationResponses,  
docsIfCmStatusT1Timeouts,  
docsIfCmStatusT2Timeouts,  
docsIfCmStatusT3Timeouts,  
docsIfCmStatusT4Timeouts,  
docsIfCmStatusRangingAborted,  
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,  
docsIfCmtsStatusRangingAborted,  
docsIfCmtsStatusInvalidRegReqs,  
docsIfCmtsStatusFailedRegReqs,  
docsIfCmtsStatusInvalidDataReqs,  
docsIfCmtsStatusT5Timeouts,  
docsIfCmtsCmStatusMacAddress,  
docsIfCmtsCmStatusIpAddress,  
docsIfCmtsCmStatusDownChannelIfIndex,  
docsIfCmtsCmStatusUpChannelIfIndex,  
docsIfCmtsCmStatusRxPower,  
docsIfCmtsCmStatusTimingOffset,  
docsIfCmtsCmStatusEqualizationData,  
docsIfCmtsCmStatusValue,  
docsIfCmtsCmStatusUnerrored,  
docsIfCmtsCmStatusCorrected,  
docsIfCmtsCmStatusUncorrectable,  
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,  
docsIfSigQUnerrored,  
docsIfSigQCorrected,  
docsIfSigQUncorrectable,  
docsIfSigQSignalNoise,  
docsIfSigQMicroreflections,  
docsIfSigQExtUnerrored,  
docsIfSigQExtCorrected,  
docsIfSigQExtUncorrectable,  
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,  
docsIfCmStatusRangingAborted,  
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,  
docsIfCmtsStatusRangingAborted,

docsIfCmtsStatusInvalidRegReqs,  
docsIfCmtsStatusFailedRegReqs,  
docsIfCmtsStatusInvalidDataReqs,  
docsIfCmtsStatusT5Timeouts,  
docsIfCmtsCmStatusMacAddress,  
docsIfCmtsCmStatusDownChannelIfIndex,  
docsIfCmtsCmStatusUpChannelIfIndex,  
docsIfCmtsCmStatusRxPower,  
docsIfCmtsCmStatusTimingOffset,  
docsIfCmtsCmStatusEqualizationData,  
docsIfCmtsCmStatusValue,  
docsIfCmtsCmStatusUnerrored,  
docsIfCmtsCmStatusCorrected,  
docsIfCmtsCmStatusUncorrectables,  
docsIfCmtsCmStatusSignalNoise,  
docsIfCmtsCmStatusMicroreflections,  
docsIfCmtsCmStatusExtUnerrored,  
docsIfCmtsCmStatusExtCorrected,

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):
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-
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 HCNM-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 OAM actions with it. As an example, an active OAM entity can put the remote OAM entity in a loopback state, where a passive OAM 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. OAM 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 OAM 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 terminatingLoopback(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 OAM 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 OAM events (as indicated by the eventSupport bit in dot3OamFunctionsSupported). 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

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

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

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

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

$$\text{dot3OamErrSymPeriodThreshold} = ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) + \text{dot3OamErrSymPeriodThresholdLo}$$

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

$$\text{dot3OamErrSymPeriodThreshold} = ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) + \text{dot3OamErrSymPeriodThresholdLo}$$

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:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) \\ + \text{dot3OamEventLogWindowLo}$$

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:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

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:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

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:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-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  
SnmAdminString  
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: stjohs@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  $y = g^{xa} \text{ MOD } p$ , 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  $2^{l-1} \leq xa < 2^l < p-1$ . 'l' is the

optional privateValueLength from usmDHPParameters in bits. If 'l' is omitted, then xa (and xr below) is selected in the interval  $0 \leq xa < p-1$ . y 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  $PV1 \neq 0$ .

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  $z = g^{xr} \text{ MOD } p$ , where g, p and l are as above, and where xr is a new random integer selected by the manager in the interval  $2^{l-1} \leq xr < 2^l < p-1$ . 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  $\neq$  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  $sk = z^{xa} \text{ MOD } p$ , and at the manager as  $sk = y^{xr} \text{ MOD } p$ .

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 }

usmDHPParameters 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 DHPParameter per PKCS #3, section 9. E.g.

```
DHPParameter ::= 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 usmDHPParameters 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 usmDhKeyChangeTable) equals this entry's usmDhKickstartSecurityName. In other words, 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  $g^r \text{ MOD } p$  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  $2^{l-1} \leq r < p-1 < 2^l$ . If  $l$  is unspecified, then  $r$  is a random integer selected in the interval  $0 \leq r < p-1$

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  $y = g^r \text{ mod } p$  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  $sk = mgrPublic^r \text{ mod } p$  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 Schneier - 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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibbles-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.

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 a 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),  
rectifierLowFVtorage (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),
- lowTemperature (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),
  - lossOfRealTime (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),
- underlyingResourceUnavailable (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),  
applicationSubsystemFailure (501),  
bandwidthReducedX733 (502),  
callEstablishmentError (503),  
communicationsProtocolError (504),  
communicationsSubsystemFailure (505),  
configurationOrCustomizationError (506),  
congestionX733 (507),  
corruptData (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),  
responseTimeExcessive (542),

retransmissionRateExcessive (543),  
 softwareErrorX733 (544),  
 softwareProgramAbnormallyTerminated (545),  
 softwareProgramError (546),  
 storageCapacityProblemX733 (547),  
 temperatureUnacceptable (548),  
 thresholdCrossed (549),  
 timingProblemX733 (550),  
 toxicLeakDetected (551),  
 transmitFailureX733 (552),  
 transmitterFailure (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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/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.

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  
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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.

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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          SipTCEntityTypeRole
}
```

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.  
--

sipCommonNotifAppIndex OBJECT-TYPE  
SYNTAX Unsigned32 (1..2147483647)  
MAX-ACCESS accessible-for-notify  
STATUS current  
DESCRIPTION  
"This object contains the appIndex as described in RFC 2788.  
This object is created in order to allow a variable binding  
containing a value of appIndex 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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-
COMMON-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]

pkctIetfSigMib MODULE-IDENTITY

LAST-UPDATED "200712180000Z" -- December 18, 2007

ORGANIZATION "IETF IPCDN Working Group"

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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.

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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

PktnCodecType ::= 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)  
}
```

PkctSubscriberSideSigProtocol::=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)  
}
```

pkcSigMibObjects OBJECT IDENTIFIER ::= { pkcIetfSigMib 1 }

pkcSigDevObjects OBJECT IDENTIFIER ::=

```
{ pkcSigMibObjects 1 }
```

pkcSigEndPntConfigObjects OBJECT IDENTIFIER ::=

```
{ pkcSigMibObjects 2 }
```

--

-- The codec table (pkcSigDevCodecTable) defines all combinations  
-- of codecs supported by the Multimedia Terminal Adapter (MTA).

--

pkcSigDevCodecTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigDevCodecEntry

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:

pkcSigDev CodecComboIndex	pkcSigDev CodecType	pkcSigDev 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."

```
::= { pkcSigDevObjects 1 }
```

pkcSigDevCodecEntry OBJECT-TYPE

SYNTAX PkcSigDevCodecEntry

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 { pkcSigDevCodecComboIndex, pkcSigDevCodecType }
```

```
::= { 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 PkctRingCadence

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 PkctRingCadence

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 PkctRingCadence

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 PkctRingCadence

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 }

pkcSigDevRgCadence OBJECT-TYPE

SYNTAX PkcRingCadence

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."

::= { pkcSigDevObjects 13 }

pkcSigDevRsCadence OBJECT-TYPE

SYNTAX PkcRingCadence

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."

::= { pkcSigDevObjects 14 }

pkcSigDefCallSigDscp 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 }

::= { pkcSigDevObjects 15 }

pkcSigDefMediaStreamDscp 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 PkctcSigCapabilityEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

" This table describes the signaling types supported by this MTA."

::= { pktcSigDevObjects 17 }

pktcSigCapabilityEntry OBJECT-TYPE

SYNTAX PkctcSigCapabilityEntry

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 }

PkctcSigCapabilityEntry ::= SEQUENCE {

pktcSigCapabilityIndex Unsigned32,

```
pkcSigCapabilityType      PkcSigType,
pkcSigCapabilityVersion   SnmpAdminString,
pkcSigCapabilityVendorExt SnmpAdminString
}
```

```
pkcSigCapabilityIndex    OBJECT-TYPE
SYNTAX      Unsigned32 (1..255)
MAX-ACCESS  not-accessible
STATUS      current
DESCRIPTION
    " The index value that uniquely identifies an entry in the
      pkcSigCapabilityTable."
 ::= { pkcSigCapabilityEntry 1 }
```

```
pkcSigCapabilityType     OBJECT-TYPE
SYNTAX      PkcSigType
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."
 ::= { pkcSigCapabilityEntry 2 }
```

```
pkcSigCapabilityVersion  OBJECT-TYPE
SYNTAX      SnmpAdminString
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION
    " Provides the version of the signaling type - reference
      pkcSigCapabilityType. Examples would be 1.0 or 2.33 etc."
 ::= { pkcSigCapabilityEntry 3 }
```

```
pkcSigCapabilityVendorExt 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 <code>pktcSigDevVmwiMode</code>	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 PkctRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is the Ring Cadence."

::= { pktcSigDevRingCadenceEntry 2 }

pktcSigDevToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkctSigDevToneEntry

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 PkctSigDevToneEntry

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 { pkctSigDevToneType, pkctSigDevToneFreqGroup }

::= { pkctSigDevToneTable 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,

pktcSigEndPntConfigTSMMax 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 }

pktcSigEndPntConfigTSMMax 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 }

pkcSigEndPntConfigMax2 OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-create

STATUS current

DESCRIPTION

"This object contains the disconnect error threshold for signaling messages. The pkcSigEndPntConfigMax2 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 }

::= { pkcSigEndPntConfigEntry 15 }

pkcSigEndPntConfigMax1QEnable 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 pkcSigEndPntConfigMax1 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pkcSigEndPntConfigEntry 16 }

pkcSigEndPntConfigMax2QEnable 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 pkcSigEndPntConfigMax2 threshold has been reached.

A value of true(1) indicates enabling, and a value of false(2) indicates disabling."

DEFVAL { true }

::= { pkcSigEndPntConfigEntry 17 }

pkcSigEndPntConfigMWD 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 }

pktcSigEndPntConfigTadmin 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,

```

```
pkteSigDefNcsReceiveUdpPort
}
STATUS current
DESCRIPTION
    "Group of MIB objects containing signaling configuration
    information that is applicable per-device."
::= { pkteSigGroups 1 }
```

```
pkteSigEndpointGroup OBJECT-GROUP
OBJECTS {
    pkteSigEndPntConfigCallAgentId,
    pkteSigEndPntConfigCallAgentUdpPort,
    pkteSigEndPntConfigPartialDialTO,
    pkteSigEndPntConfigCriticalDialTO,
    pkteSigEndPntConfigBusyToneTO,
    pkteSigEndPntConfigDialToneTO,
    pkteSigEndPntConfigMessageWaitingTO,
    pkteSigEndPntConfigOffHookWarnToneTO,
    pkteSigEndPntConfigRingingTO,
    pkteSigEndPntConfigRingBackTO,
    pkteSigEndPntConfigReorderToneTO,
    pkteSigEndPntConfigStutterDialToneTO,
    pkteSigEndPntConfigTSMMax,
    pkteSigEndPntConfigMax1,
    pkteSigEndPntConfigMax2,
    pkteSigEndPntConfigMax1QEnable,
    pkteSigEndPntConfigMax2QEnable,
    pkteSigEndPntConfigMWD,
    pkteSigEndPntConfigTdinit,
    pkteSigEndPntConfigTdmin,
    pkteSigEndPntConfigTdmax,
    pkteSigEndPntConfigRtoMax,
    pkteSigEndPntConfigRtoInit,
    pkteSigEndPntConfigLongDurationKeepAlive,
    pkteSigEndPntConfigThist,
    pkteSigEndPntConfigStatus,
```

```
    pkteSigEndPntConfigCallWaitingMaxRep,
    pkteSigEndPntConfigCallWaitingDelay,
    pkteSigEndPntStatusCallIpAddressType,
    pkteSigEndPntStatusCallIpAddress,
    pkteSigEndPntStatusError
}
```

```
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,  
pktcSigDevvpAsDtsDuration,  
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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-  
SIG-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,
    mdmCCCSetupFailTimer, mdmCCResultCodeEnable,
    mdmCCEscapeAction, mdmCCCduration,
    mdmCCCconnectionFailReason, 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 { mdmECEErrorControlUsed }

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 existence 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 occurred 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 MdmECEnterY  
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 gstmModulationSchemeActive"  
::= { 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 successfully 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 }

mdmStatsGreater Than14400Connections 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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-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

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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  $\text{diffServRandomDropWeight}/65536$  as the coefficient for the new sample in the equation, and  $(65536 - \text{diffServRandomDropWeight})/65536$  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:

$$\text{diffServMinRateRelative} = \frac{(\text{diffServMinRateAbsolute} * 1000000)}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$$

## 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:

$$\text{diffServMinRateRelative} = \frac{\text{diffServMinRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \frac{\text{diffServMinRateAbsolute}}{\text{ifHighSpeed}}$$

#### 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:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute}}{\text{ifHighSpeed}}$$

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:

$$\text{diffServMaxRateRelative} = (\text{diffServMaxRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$$

#### 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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-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."

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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-
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 "19940131000Z" -- 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](mailto: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  
 rsrc(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 Workstation  
 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  
 transpHdlc (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 synchronous 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  
hdlsl2 (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 Communications  
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 Symmetrical PON interface  
pon622 (208), -- FSAN622Mb Symmetrical 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/OBSOLETE - 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
}

```

IANA\_tunnelType ::= 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 IANA\_tunnelType values is identical to the policy for assigning IANA\_ifType 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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-
jar/mibs/iana/IANAifType-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
}

```

ipNetToMediaIface 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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-
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]  
SnmAdminString  
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]

pkcIetfMtaMib MODULE-IDENTITY  
LAST-UPDATED "200609180000Z" -- September 18, 2006  
ORGANIZATION "IETF IP over Cable Data Network Working Group"  
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Co-Chair: Richard Woundy, [Richard\\_Woundy@cable.comcast.com](mailto: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

PkctMtaDevProvEncryptAlg ::= 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.  
=====

pkctMtaNotification OBJECT IDENTIFIER ::= { pkctIetfMtaMib 0 }  
pkctMtaMibObjects OBJECT IDENTIFIER ::= { pkctIetfMtaMib 1 }  
pkctMtaDevBase OBJECT IDENTIFIER ::= { pkctMtaMibObjects 1 }  
pkctMtaDevServer OBJECT IDENTIFIER ::= { pkctMtaMibObjects 2 }  
pkctMtaDevSecurity OBJECT IDENTIFIER ::= { pkctMtaMibObjects 3 }  
pkctMtaDevErrors OBJECT IDENTIFIER ::= { pkctMtaMibObjects 4 }  
pkctMtaConformance OBJECT IDENTIFIER ::= { pkctIetfMtaMib 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 PkctlMtaDevErrorOidsEntry

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 { pkctlMtaDevErrorOidIndex }

::= {pkctlMtaDevErrorOidsTable 1 }

PkctlMtaDevErrorOidsEntry ::= SEQUENCE {

pkctlMtaDevErrorOidIndex Unsigned32,

pkctlMtaDevErrorOid SnmpAdminString,

pkctlMtaDevErrorValue SnmpAdminString,

pkctlMtaDevErrorReason SnmpAdminString

}

pkctlMtaDevErrorOidIndex 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 pkctlMtaDevErrorOidsTable 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 pkctlMtaDevErrorOidsTable."

::= {pkctlMtaDevErrorOidsEntry 1 }

pkctlMtaDevErrorOid 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 }

pktcMtaDevSnmEntity 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 (pktcMtaDevRealmUnsolicitedMaxRetries).

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 }

#### pktcMtaDevCmsIpsctrl 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 PkctcMtaDevProvEncryptAlg

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 PkctMtaDevProvEncryptAlg  
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

}

::= { pkteMtaCompliances 2 }

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/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.

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 mioPeerEncTable 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 result 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 mioPeerEncTable with the same mioPeerIndex and with an mioPeerEncIndex higher than the deleted entry, will all have their mioPeerEncIndex values decremented by one."

::= { mioPeerEncEntry 2 }

-- #####

END

Found in path(s):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-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"  
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#### 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."

```
::= { sysAppInstalled 1 }
```

sysAppInstallPkgEntry OBJECT-TYPE

SYNTAX SysAppInstallPkgEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The logical row describing an installed application package."

INDEX { sysAppInstallPkgIndex }

```
::= { sysAppInstallPkgTable 1 }
```

SysAppInstallPkgEntry ::= SEQUENCE {

sysAppInstallPkgIndex Unsigned32,

sysAppInstallPkgManufacturer Utf8String,

sysAppInstallPkgProductName Utf8String,

sysAppInstallPkgVersion Utf8String,

sysAppInstallPkgSerialNumber Utf8String,

sysAppInstallPkgDate DateAndTime,

sysAppInstallPkgLocation LongUtf8String

}

sysAppInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppInstallPkgIndex value must not be re-used until the next agent entity restart in the event the installed application entry is deleted."

```
::= { sysAppInstallPkgEntry 1 }
```

sysAppInstallPkgManufacturer 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,
```

```

sysAppInstallElmtSizeHigh      Unsigned32,
sysAppInstallElmtSizeLow      Unsigned32,
sysAppInstallElmtRole          BITS,
sysAppInstallElmtModifyDate    DateAndTime,
sysAppInstallElmtCurSizeHigh  Unsigned32,
sysAppInstallElmtCurSizeLow   Unsigned32
}

```

sysAppInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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."

::= { sysAppInstallElmtEntry 1 }

sysAppInstallElmtName OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The name of this element which is contained in the application."

::= { sysAppInstallElmtEntry 2 }

sysAppInstallElmtType 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."

::= { sysAppInstallElmtEntry 3 }

sysAppInstallElmtDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The date and time that this component was installed on the system."

::= { sysAppInstallElmtEntry 4 }

#### sysAppInstallElmtPath 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."

::= { sysAppInstallElmtEntry 5 }

#### sysAppInstallElmtSizeHigh 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."

::= { sysAppInstallElmtEntry 6 }

#### sysAppInstallElmtSizeLow 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<sup>32</sup> 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<sup>32</sup> 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..'ffffff'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 sysAppElmRunState) and their Roles as defined by sysAppInstallElmRole. 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."

::= { sysAppRunEntry 3 }

-- sysAppPastRunTable

-- The sysAppPastRunTable provides a history of applications  
-- previously run on the host computer. Entries are removed from  
-- the sysAppRunTable 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 sysAppPastRunMaxRows,  
-- or when an entry has aged to exceed a time limit as set by  
-- sysAppPastRunTblTimeLimit.

--

-- When aging out entries, the oldest entry, as determined by

-- the value of sysAppPastRunTimeEnded, will be removed first.

sysAppPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppPastRunEntry

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 sysAppRunTable 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 sysAppInstallElmRole. 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..'ffffff'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 sysAppElmtRunTable 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 sysAppElmtRunInstallPkg,  
-- sysAppElmtRunInvocID, and sysAppElmtRunIndex to make it easy  
-- to locate all running elements of a particular invoked application  
-- which has been installed on the system.

#### sysAppElmtRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtRunEntry

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 sysAppElmtRunInstallPkg, sysAppElmtRunInvocID, and sysAppElmtRunIndex to facilitate the retrieval of all running elements of a particular invoked application which has been installed on the system."

::= { sysAppRun 3 }

#### sysAppElmtRunEntry OBJECT-TYPE

SYNTAX SysAppElmtRunEntry

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 { sysAppElmtRunInstallPkg, sysAppElmtRunInvocID,

```
    sysAppElmtRunIndex }  
 ::= { sysAppElmtRunTable 1 }
```

```
SysAppElmtRunEntry ::= SEQUENCE {  
    sysAppElmtRunInstallPkg    Unsigned32,  
    sysAppElmtRunInvocID      Unsigned32,  
    sysAppElmtRunIndex        Unsigned32,  
    sysAppElmtRunInstallIID    Unsigned32,  
    sysAppElmtRunTimeStarted   DateAndTime,  
    sysAppElmtRunState        RunState,  
    sysAppElmtRunName         LongUtf8String,  
    sysAppElmtRunParameters    Utf8String,  
    sysAppElmtRunCPU           TimeTicks,  
    sysAppElmtRunMemory        Gauge32,  
    sysAppElmtRunNumFiles      Gauge32,  
    sysAppElmtRunUser          Utf8String  
 }
```

sysAppElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable 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."

```
 ::= { sysAppElmtRunEntry 1 }
```

sysAppElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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..'ffffff'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..'ffffff'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)."

::= { sysAppElmtRunEntry 6 }

sysAppElmtRunName 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'."

::= { sysAppElmtRunEntry 7 }

sysAppElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtRunEntry 8 }

sysAppElmtRunCPU 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."

::= { sysAppElmtRunEntry 9 }

sysAppElmtRunMemory 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."

```
::= { sysAppElmtRunEntry 10 }
```

sysAppElmtRunNumFiles 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."

```
::= { sysAppElmtRunEntry 11 }
```

sysAppElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The process owner's login name (e.g. root)."

```
::= { sysAppElmtRunEntry 12 }
```

-- sysAppElmtPastRunTable

-- The sysAppElmtPastRunTable 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 sysAppElmtRunTable 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 sysAppElmtRunTable contains an entry for  
-- every process currently executing on the system, the  
-- sysAppElmtPastRunTable 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 sysAppElmtPastRunMaxRows, or  
-- when an entry has aged to exceed a time limit as set by  
-- sysAppElmtPastRunTblTimeLimit. When aging out entries,  
-- the oldest entry, as determined by the value of  
-- sysAppElmtPastRunTimeEnded, will be removed first.

--

-- The table is indexed by sysAppInstallPkgIndex (from the  
-- sysAppInstallPkgTable), sysAppElmtPastRunInvocID, and

-- sysAppElmtPastRunIndex to make it easy to locate all  
-- previously executed processes of a particular invoked application  
-- that has been installed on the system.

#### sysAppElmtPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtPastRunEntry

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 sysAppElmtRun 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 sysAppElmtPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysAppElmtPastRunTblTimeLimit. When aging out entries, the oldest entry, as determined by the value of sysAppElmtPastRunTimeEnded, will be removed first.

The table is indexed by sysAppInstallPkgIndex (from the sysAppInstallPkgTable), sysAppElmtPastRunInvocID, and sysAppElmtPastRunIndex to make it easy to locate all previously executed processes of a particular invoked application that has been installed on the system."

::= { sysAppRun 4 }

#### sysAppElmtPastRunEntry OBJECT-TYPE

SYNTAX SysAppElmtPastRunEntry

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 sysAppElmtRunTable when the process terminates. Hence, the entry's value for sysAppElmtPastRunIndex is the same as its value was for sysAppElmtRunIndex. Note carefully: only those

processes which could be associated with an identified application are included in this table."

```
INDEX { sysAppInstallPkgIndex, sysAppElmtPastRunInvocID,  
        sysAppElmtPastRunIndex }  
 ::= { sysAppElmtPastRunTable 1 }
```

```
sysAppElmtPastRunEntry ::= SEQUENCE {  
    sysAppElmtPastRunInvocID    Unsigned32,  
    sysAppElmtPastRunIndex      Unsigned32,  
    sysAppElmtPastRunInstallID  Unsigned32,  
    sysAppElmtPastRunTimeStarted DateAndTime,  
    sysAppElmtPastRunTimeEnded  DateAndTime,  
    sysAppElmtPastRunName       LongUtf8String,  
    sysAppElmtPastRunParameters Utf8String,  
    sysAppElmtPastRunCPU        TimeTicks,  
    sysAppElmtPastRunMemory     Unsigned32,  
    sysAppElmtPastRunNumFiles   Unsigned32,  
    sysAppElmtPastRunUser       Utf8String  
}
```

sysAppElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppRunIndex for the corresponding application invocation in the sysAppRunTable. If the invoked application as a whole has terminated, it will be the same as the sysAppPastRunIndex."

```
 ::= { sysAppElmtPastRunEntry 1 }
```

sysAppElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 sysAppElmtRunIndex which was removed from the sysAppElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by sysAppElmtPastRunInvocID, sysAppElmtPastRunIndex.

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 - sysAppElmtPastRunTable Entry Collisions' for the conditions that would have to occur in order for a collision to occur."

```
::= { sysAppElmtPastRunEntry 2 }
```

sysAppElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppInstallElmtIndex for the application element of which this entry represents a previously executed process."

```
::= { sysAppElmtPastRunEntry 3 }
```

sysAppElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process was started."

```
::= { sysAppElmtPastRunEntry 4 }
```

sysAppElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The time the process ended."

```
::= { sysAppElmtPastRunEntry 5 }
```

sysAppElmtPastRunName 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'."

::= { sysAppElmtPastRunEntry 6 }

sysAppElmtPastRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtPastRunEntry 7 }

sysAppElmtPastRunCPU 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."

::= { sysAppElmtPastRunEntry 8 }

sysAppElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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."

::= { sysAppElmtPastRunEntry 9 }

sysAppElmtPastRunNumFiles OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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..'ffffff'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 be 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..'ffffff'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..'ffffff'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 be 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 sysAppElemPastRunMaxRows) since the last initialization of the management subsystem."

::= { sysAppRun 9 }

sysAppElemPastRunTblTimeLimit OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'h)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"The maximum time in seconds which an entry in the sysAppElemPastRunTable 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 sysAppElemPastRunMaxRows."

DEFVAL { 7200 }

::= { sysAppRun 10 }

sysAppAgentPollInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 }

::= { sysAppRun 11 }

-- sysAppMap Group

-- This group contains a table, the sysAppMapTable,

-- whose sole purpose is to provide a 'backwards'  
-- mapping so that, given a known sysAppElmtRunIndex  
-- (process identification number), the corresponding invoked  
-- application (sysAppRunIndex), installed element  
-- (sysAppInstallElmtIndex), and installed application  
-- package (sysAppInstallPkgIndex) 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 (sysAppInstallPkgIndex)  
-- as the primary key, and on down as required by the  
-- specific table, with the process ID number (sysAppElmtRunIndex)  
-- 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 (sysAppElmtRunIndex) as the partial  
-- instance identifier. Assuming that there is an entry for  
-- the process, the result should return a single columnar value,  
-- the sysAppMapInstallPkgIndex, with the sysAppElmtRunIndex,  
-- sysAppRunIndex, and sysAppInstallElmtIndex 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 sysAppMapInstallPkgIndex  
-- will be '0' and the instance portion of the object-identifier  
-- will be the process ID number (sysAppElmtRunIndex) followed  
-- by 0.0.

#### sysAppMapTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppMapEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"The sole purpose of this table is to provide a  
'backwards' mapping so that, given a known  
sysAppElmtRunIndex (process identification number),  
the corresponding invoked application (sysAppRunIndex),  
installed element (sysAppInstallElmtIndex), and  
installed application package (sysAppInstallPkgIndex)  
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..'ffffff'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..'ffffff'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,

```

        sysAppElemPastRunMaxRows,
        sysAppElemPastRunTableRemItems,
        sysAppElemPastRunTblTimeLimit,
        sysAppAgentPollInterval }
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."
 ::= { sysAppMIBGroups 2 }

sysAppMapGroup OBJECT-GROUP
OBJECTS { sysAppMapInstallPkgIndex }
STATUS current
DESCRIPTION
    "The Map Group contains a single table, sysAppMapTable,
    that provides a backwards mapping for determining the
    invoked application, installed element, and installed
    application package given a known process identification
    number."
 ::= { sysAppMIBGroups 3 }

END

Found in path(s):
* /opt/cola/permits/1114224902_1674671410.9193063/0/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
    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 a 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),

rectifierLowFVVoltage (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),  
 lowTemperature (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),  
     lossOfRealTime (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),  
     underlyingResourceUnavailable (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),  
applicationSubsystemFailure (501),  
bandwidthReducedX733 (502),  
callEstablishmentError (503),  
communicationsProtocolError (504),  
communicationsSubsystemFailure (505),  
configurationOrCustomizationError (506),  
congestionX733 (507),  
corruptData (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),  
responseTimeExcessive (542),  
retransmissionRateExcessive (543),  
softwareErrorX733 (544),  
softwareProgramAbnormallyTerminated (545),  
softwareProgramError (546),  
storageCapacityProblemX733 (547),  
temperatureUnacceptable (548),  
thresholdCrossed (549),  
timingProblemX733 (550),  
toxicLeakDetected (551),  
transmitFailureX733 (552),  
transmitterFailure (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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/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.

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  
SnmAdminString  
    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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Archive: <ftp://ftp.ietf.org/ietf-mail-archive/ipcdn>  
Co-chairs: Richard Woundy,  
[richard\\_woundy@cable.comcast.com](mailto:richard_woundy@cable.comcast.com)  
Jean-Francois Mule,  
[jf.mule@cablelabs.com](mailto: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 maximum 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<sup>31</sup>. 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 OSSIV 1.1 Specification, Section 3.3.4.1. and  
DOCSIS OSSIV 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](http://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](http://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 docsDevBaseIcmpGroup  
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 docsDevIcmpModeControl

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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/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.

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."

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One Microsoft Way

Redmond, WA 98052

US

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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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/RADIUS-  
ACC-CLIENT-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"

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DESCRIPTION

"The MIB module for SNMP entities.

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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):

```
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-  
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

```
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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 "19971120000Z" -- 20 November 1997

DESCRIPTION "The initial version, published in RFC 2271.

"

::= { snmpModules 10 }

-- Textual Conventions used in the SNMP Management Architecture \*\*\*

SnmEngineID ::= 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))

SnmSecurityModel ::= 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)

SnmppMessageProcessingModel ::= 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:

$$\text{enterpriseID} * 256 + \text{messageProcessingModel within enterprise}$$

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)

SnmSecurityLevel ::= 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)
                }
```

```
SnmAdminString ::= 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):
* /opt/cola/permits/1114224902_1674671410.9193063/0/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  
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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:

yyymmddThhmmss/yyymmddThhmmss

Where: yyyy = year mm = month dd = day  
hh = hour mm = minute ss = second

The first 'yyymmddThhmmss' sub-string indicates the start date and time. The second 'yyymmddThhmmss' 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
- spdIpsHeaderFilterTable

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	SnmAdminString,
spdCompFiltDescription	SnmAdminString,
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  
spdIpsHeaderFilterTable  
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 { 'ffffffffffffe'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
```

```
--
```

```
spdIpsHeaderFilterTable OBJECT-TYPE
```

```
SYNTAX SEQUENCE OF SpdIpsHeaderFilterEntry
```

```
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 }
```

```
spdIpsHeaderFilterEntry OBJECT-TYPE
```

```
SYNTAX SpdIpsHeaderFilterEntry
```

```
MAX-ACCESS not-accessible
```

```
STATUS current
```

```
DESCRIPTION
```

```
"A definition of a particular filter."
```

```
INDEX { spdIpsHeaderFilterName }
```

```
::= { spdIpsHeaderFilterTable 1 }
```

```
SpdIpsHeaderFilterEntry ::= SEQUENCE {
```

```
    spdIpsHeaderFilterName      SnmpAdminString,
```

```
    spdIpsHeaderFilterType      BITS,
```

```
    spdIpsHeaderFilterClassification INTEGER,
```

```
    spdIpsHeaderFilterProtectionAuth INTEGER,
```

```
    spdIpsHeaderFilterLastChanged TimeStamp,
```

```
    spdIpsHeaderFilterStorageType StorageType,
```

```
    spdIpsHeaderFilterRowStatus RowStatus
```

```
}
```

```
spdIpsHeaderFilterName OBJECT-TYPE
```

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpsHeaderFilterEntry 1 }

spdIpsHeaderFilterEntry 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 spdIpsHeaderFilterClassification

object indicates how the packet is filtered. If this object is set to protectionAuthority(1), the spdIpsHeaderFilterProtectionAuth object indicates how the packet is filtered."

::= { spdIpsHeaderFilterEntry 2 }

spdIpsHeaderFilterClassification 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"

::= { spdIpsHeaderFilterEntry 3 }

spdIpsHeaderFilterProtectionAuth 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"

::= { spdIpsHeaderFilterEntry 4 }

spdIpsHeaderFilterEntryLastChanged 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."

::= { spdIpsHeaderFilterEntry 5 }

spdIpsHeaderFilterEntryStorageType 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 }

::= { spdIpsHeaderFilterEntry 6 }

spdIpsHeaderFilterEntryRowStatus 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 spdIpsHeaderFilterGroup

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 spdIpsHeaderFilterGroup

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 }
```

```
spdIpssecSystemPolicyNameGroup 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):

\* /opt/cola/permits/1114224902\_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-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"

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"

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 the 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):
* /opt/cola/permits/1114224902_1674671410.9193063/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-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 { 'AA00000000000000000000000000000000'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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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



dlsDirMacCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlsDirMacIndex 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 dlsDirMacTable. 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."

::= { dlsDirStat 4 }

dlsDirNBEntries OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The current total number of entries in the dlsDirNBTable."

::= { dlsDirStat 5 }

dlsDirNBCacheHits 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."

::= { dlsDirStat 6 }

dlsDirNBCacheMisses 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."

::= { dlsDirStat 7 }

dlsDirNBCacheNextIndex OBJECT-TYPE

SYNTAX INTEGER (0..2147483647)

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The next value of dlsDirNBIndex 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 dlsDirNBTable. 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

-----  
 -- 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
--
-- .....

```

dlsDirNBTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlsDirNBEntry

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."

::= { dlsDirCache 2 }

dlsDirNBEntry OBJECT-TYPE

SYNTAX DlsDirNBEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlsDirNBIndex."

INDEX { dlsDirNBIndex }

::= { dlsDirNBTable 1 }

DlsDirNBEntry ::= SEQUENCE {

dlsDirNBIndex INTEGER,

dlsDirNBName NBName,

dlsDirNBNameType INTEGER,

dlsDirNBEntryType INTEGER,

dlsDirNBLocationType INTEGER,

dlsDirNBLocation RowPointer,

dlsDirNBStatus INTEGER,

dlsDirNBLFSize LFSize,

dlsDirNBRowStatus RowStatus

}

dlsDirNBIndex 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 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 entries in the Circuit Table	Origin End Station Location		
		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,

```

dlsuCircuitPriority      INTEGER,

dlsuCircuitFCSendGrantedUnits  INTEGER,
dlsuCircuitFCSendCurrentWndw   INTEGER,
dlsuCircuitFCRecvGrantedUnits  INTEGER,
dlsuCircuitFCRecvCurrentWndw   INTEGER,
dlsuCircuitFCLargestRecvGranted Gauge32,
dlsuCircuitFCLargestSendGranted Gauge32,
dlsuCircuitFCHalveWndwSents    Counter32,
dlsuCircuitFCResetOpSents     Counter32,
dlsuCircuitFCHalveWndwRcvds   Counter32,
dlsuCircuitFCResetOpRcvds     Counter32,
dlsuCircuitDiscReasonLocal    INTEGER,
dlsuCircuitDiscReasonRemote   INTEGER,
dlsuCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....
dlsuCircuitS1Mac OBJECT-TYPE
SYNTAX  MacAddressNC
MAX-ACCESS not-accessible
STATUS  current
DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
 ::= { dlsuCircuitEntry 1 }

dlsuCircuitS1Sap 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."
 ::= { dlsuCircuitEntry 2 }

dlsuCircuitS1IfIndex 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."
 ::= { dlsuCircuitEntry 3 }

dlsuCircuitS1DlcType 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  
-- .....

dlsuCircuitDiscReasonLocal OBJECT-TYPE

```
SYNTAX INTEGER {
    endStationDiscRcvd      (1),
    endStationDlcError      (2),
    protocolError           (3),
    operatorCommand         (4),
    haltDIRcvd              (5),
    haltDINoAckRcvd        (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."

::= { dlsuCircuitEntry 29 }

dlsuCircuitDiscReasonRemote 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."

::= { dlsuCircuitEntry 30 }

dlsuCircuitDiscReasonRemoteData 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 { dlsWConnOperTDomain, dlsWConnOperRemoteTAddr  
}  
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 { dlsWConnOperTDomain, dlsWConnOperRemoteTAddr  
}  
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 { dlsWConnOperTDomain, dlsWConnOperRemoteTAddr  
}  
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
-- .....
dlsDirCompliance MODULE-COMPLIANCE
  STATUS current
  DESCRIPTION
    "Compliance for DLSw nodes that provide a directory
    function."
  MODULE
    MANDATORY-GROUPS {
      dlsDirGroup }

  GROUP dlsDirNBGroup
    DESCRIPTION
      "The DLSw NetBIOS group is mandatory only for
      those DLSw entities that implement NetBIOS."

  OBJECT dlsDirMacMac
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."

  OBJECT dlsDirMacMask
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."

  OBJECT dlsDirMacEntryType
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."
  OBJECT dlsDirMacLocationType
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."

  OBJECT dlsDirMacLocation
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."

  OBJECT dlsDirMacStatus
    MIN-ACCESS read-only
    DESCRIPTION
      "Write access is not required."

  OBJECT dlsDirMacLFSize

```

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,  
    dlswCircuitFCSendCurrentWdw,  
    dlswCircuitFCRecvGrantedUnits,  
    dlswCircuitFCRecvCurrentWdw,  
    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):

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## 1.38 model 2.5.0-b05

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## 1.46 httpclient 3.10.0

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* /opt/cola/permits/1147791569_1617098700.41/0/spring-web-4-3-19-release-sources-3-
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jar/org/springframework/web/bind/support/DefaultSessionAttributeStore.java  
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jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java  
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\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/filter/Log4jNestedDiagnosticContextFilter.java  
\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/context/request/AbstractRequestAttributes.java  
\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/web/multipart/support/ByteArrayMultipartFileEditor.java

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\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java

\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianServiceExporter.java

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\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java

\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/server/ServerHttpResponse.java

\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/http/InvalidMediaTypeException.java

\* /opt/cola/permits/1147791569\_1617098700.41/0/spring-web-4-3-19-release-sources-3-jar/org/springframework/remoting/caucho/HessianClientInterceptor.java

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jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
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jar/okhttp3/internal/http/RealInterceptorChain.java
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- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/RealCall.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/CipherSuite.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/internal/Version.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/FormBody.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/internal/ws/WebSocketProtocol.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/CertificatePinner.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/Protocol.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/internal/http/HttpMethod.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/Interceptor.java
- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/ConnectionSpec.java
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- \* /opt/cola/permits/1114946298\_1607575404.9/0/okhttp-3-7-0-sources-3-jar/okhttp3/internal/http2/Ping.java

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# 1.50 aspectj-tools 1.8.13

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## 1.51 jersey-container-servlet-core 2.24.1

## 1.52 httpmime 4.2.3

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\* /opt/cola/permits/1147791423\_1617249353.83/0/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java  
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\* /opt/cola/permits/1147791423\_1617249353.83/0/spring-beans-4-3-19-release-sources-2-jar/org/springframework/beans/factory/parsing/BeanEntry.java

\* /opt/cola/permits/1147791423\_1617249353.83/0/spring-beans-4-3-19-release-sources-2-

jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java

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## 1.55 sesame-rio-datatypes 2.7.16

## 1.56 commons-fileupload 1.2

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# 1.57 jersey-container-servlet-core 2.5.1

## 1.58 javax-activation 1.2.0

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```

```
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 */
```

```
package javax.activation;
```

```
import java.util.Map;
import java.util.WeakHashMap;
```

```
/**
 * The CommandMap class provides an interface to a registry of
```

```

* command objects available in the system.
* Developers are expected to either use the CommandMap
* implementation included with this package (MailcapCommandMap) or
* develop their own. Note that some of the methods in this class are
* abstract.
*/
public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader,CommandMap> map =
        new WeakHashMap<ClassLoader,CommandMap>();

    /**
     * Get the default CommandMap.
     *
     * <ul>
     * <li> In cases where a CommandMap instance has been previously set
     *   to some value (via <i>setDefaultCommandMap</i>)
     *   return the CommandMap.
     * <li>
     *   In cases where no CommandMap has been set, the CommandMap
     *   creates an instance of <code>MailcapCommandMap</code> and
     *   set that to the default, returning its value.
     *
     * </ul>
     *
     * @return the CommandMap
     */
    public static synchronized CommandMap getDefaultCommandMap() {
        if (defaultCommandMap != null)
            return defaultCommandMap;

        // fetch per-thread-context-class-loader default
        ClassLoader tccl = SecuritySupport.getContextClassLoader();
        CommandMap def = map.get(tccl);
        if (def == null) {
            def = new MailcapCommandMap();
            map.put(tccl, def);
        }
        return def;
    }

    /**
     * Set the default CommandMap. Reset the CommandMap to the default by
     * calling this method with <code>null</code>.
     *
     * @param commandMap The new default CommandMap.
     * @exception SecurityException if the caller doesn't have permission

```

```

*   to change the default
*/
public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
SecurityManager security = System.getSecurityManager();
if (security != null) {
    try {
// if it's ok with the SecurityManager, it's ok with me...
security.checkSetFactory();
        } catch (SecurityException ex) {
// otherwise, we also allow it if this code and the
// factory come from the same (non-system) class loader (e.g.,
// the JAF classes were loaded with the applet classes).
ClassLoader cl = CommandMap.class.getClassLoader();
if (cl == null || cl.getParent() == null ||
    cl != commandMap.getClass().getClassLoader()) {
        throw ex;
    }
}
}
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;
}

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo classes that represent the command Beans.
 */
abstract public CommandInfo[] getPreferredCommands(String mimeType);

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getPreferredCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo classes that represent the command Beans.
 * @since JAF 1.1
 */

```

```

public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getAllCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
return getAllCommands(mimeType);
}

/**
 * Get the default command corresponding to the MIME type.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @return the CommandInfo corresponding to the command.
 */
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
 * Get the default command corresponding to the MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the command that is chosen. The implementation
 * in this class simply calls the <code>getCommand</code>

```

```

* method that ignores this argument.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @param ds a DataSource for the data
* @return the CommandInfo corresponding to the command.
* @since JAF 1.1
*/
public CommandInfo getCommand(String mimeType, String cmdName,
    DataSource ds) {
return getCommand(mimeType, cmdName);
}

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap.
*
* @param mimeType the MIME type
* @return the DataContentHandler for the MIME type
*/
abstract public DataContentHandler createDataContentHandler(String
    mimeType);

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the choice of DataContentHandler. The implementation
* in this class simply calls the <code>createDataContentHandler</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the DataContentHandler for the MIME type
* @since JAF 1.1
*/
public DataContentHandler createDataContentHandler(String mimeType,
    DataSource ds) {
return createDataContentHandler(mimeType);
}

/**
* Get all the MIME types known to this command map.
* If the command map doesn't support this operation,

```

```
* null is returned.  
*  
* @return array of MIME types as strings, or null if not supported  
* @since JAF 1.1  
*/  
public String[] getMimeTypes() {  
return null;  
}  
}
```

## 1.59 checker-qual 1.9.13

## 1.60 jnr-constants 0.9.0

## 1.61 jetty-http-spi 9.3.27.v20190418

## 1.62 websocket-server 9.3.27.v20190418

## 1.63 grpc-protobuf 1.9.0

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\* /opt/cola/permits/1616858697\_1679961830.8806806/0/grpc-protobuf-1-9-0-sources-1-jar/io/grpc/protobuf/package-info.java  
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## 1.64 objenesis 1.0

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## 1.65 messageformat 0.1.2

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# 1.66 jama 1.0.3

## 1.67 jbpm-flow 6.5.0.Final

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## 1.71 httpclient 4.4.1

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## 1.81 asm 5.0.4

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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.
*/

```

Found in path(s):

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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldInsnNode.java
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
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\*/

/\*\*

\* Constructs a new {@link ClassNode}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the {@link #ClassNode(int)}

\* version.

```
*  
* @throws IllegalStateException  
*     If a subclass calls this constructor.  
*/
```

Found in path(s):

```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/ClassNode.java  
No license file was found, but licenses were detected in source scan.
```

```
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```
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/TypePath.java  
* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/TypeReference.java  
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```

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\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/Processor.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/xml/SAXClassAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/xml/SAXAdapter.java  
\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.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 first 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.

\*/

Found in path(s):

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.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.

\*/

Found in path(s):

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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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.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/Textifier.java

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- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/util/package.html
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/package.html
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/package.html
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/commons/package.html
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/tree/package.html

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- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-resize.properties
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink.properties
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
- \* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-

writer.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-frames.properties

\* /opt/cola/permits/1000741800\_1646171538.12/0/asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/shrink-annotations.properties

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\*/

/\*\*

\* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

\* constructor*.* 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.
*/
```

Found in path(s):

```
*/opt/cola/permits/1000741800_1646171538.12/0/asm-5-0-4-sources-
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```

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```
*/opt/cola/permits/1095510691_1601467124.77/0/drools-templates-6-5-0-final-sources-1-
jar/org/drools/template/DataProviderCompiler.java
*/opt/cola/permits/1095510691_1601467124.77/0/drools-templates-6-5-0-final-sources-1-
jar/org/drools/template/parser/ArrayCell.java
```

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- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLJavaEmitter.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Functions.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultTemplateRuleBase.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Consequence.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateContainer.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/ColumnFactory.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Import.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DecisionTableParseException.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateColumn.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Global.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/AbstractColumn.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Row.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/LongColumn.java
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- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Column.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLOutput.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/BooleanColumn.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultTemplateContainer.java
- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/BooleanCell.java

\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/ArrayColumn.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Generator.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/RuleTemplate.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DRLElement.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DefaultGenerator.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/StringColumn.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/DataListener.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/LongCell.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Condition.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateRuleBase.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/SnippetBuilder.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Queries.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/TemplateDataListener.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/Cell.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/parser/StringCell.java

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\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/objects/ArrayDataProvider.java

\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/DataProvider.java

\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/ObjectDataCompiler.java

\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/jdbc/ResultSetGenerator.java

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- \* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DeclaredType.java

## 1.83 gson 2.8.2

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- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java

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jar/com/google/gson/internal/LinkedHashMap.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-  
jar/com/google/gson/internal/LinkedTreeMap.java

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jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-

jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-

jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-

jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java

\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-

jar/com/google/gson/internal/bind/ObjectTypeAdapter.java

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jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

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jar/com/google/gson/internal/bind/TypeAdapters.java

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jar/com/google/gson/internal/JsonReaderInternalAccess.java

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jar/com/google/gson/internal/bind/JsonTreeReader.java

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jar/com/google/gson/TypeAdapterFactory.java

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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/GsonBuilder.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonPrimitive.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonArray.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/DefaultDateTypeAdapter.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/Excluder.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonNull.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingPolicy.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Since.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldNamingStrategy.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/Gson.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/InstanceCreator.java  
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/Expose.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonParseException.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializationContext.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonElement.java  
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonObject.java  
\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/JsonSerializer.java  
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- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
- \* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/ConstructorConstructor.java
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/FieldAttributes.java  
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\* /opt/cola/permits/1000760527\_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/annotations/JsonAdapter.java

## 1.84 kie-internal 6.5.0.Final

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jar/org/kie/internal/agent/conf/ScanResourcesOption.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/agent/conf/UseKnowledgeBaseClassLoaderOption.java
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jar/org/kie/internal/agent/conf/ValidationTimeoutOption.java
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jar/org/kie/internal/agent/conf/NewInstanceOption.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
jar/org/kie/internal/agent/conf/MonitorChangesetEventsOption.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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```

*/
/**
* StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
* allows the application to establish an iterative conversation with the engine, where the state of the
* session is kept across invocations. The reasoning process may be triggered multiple times for the
* same set of data. After the application finishes using the session, though, it must call the
* dispose() method in order to free the resources and used memory.
*
*
* <p>
* Simple example showing a stateful session executing rules for a given collection of java objects.
* </p>
* <pre>
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
* assertFalse( kbuilder.hasErrors() );
* if (kbuilder.hasErrors() ) {
*     System.out.println( kbuilder.getErrors() );
* }
* KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
* kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
*
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* for( Object fact : facts ) {
*     ksession.insert( fact );
* }
* ksession.fireAllRules();
* ksession.dispose();
* </pre>
*
* <p>
* Simple example showing a stateful session executing processes.
* </p>
* <pre>
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
* KnowledgeBase kbase = kbuilder.newKnowledgeBase();
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* ksession.startProcess("com.sample.processid");
* ksession.signalEvent("SomeEvent", null);
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
*
* <p>
* StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine
* (like data or service callbacks that can be used in your rules and processes), but they should not
* be used to reason over. If you need to reason over your data, make sure you insert
* it as a fact, not a global.</p>

```

\* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid  
\* as much as possible) mutable globals. Also, it is a good practice to set your globals before  
\* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion  
\* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,  
\* you may receive a `NullPointerException`. </p>  
\* <p>Globals can be resolved in two ways. The `StatefulKnowledgeSession` supports `getGlobals()` which  
\* returns the internal Globals, which itself can take a delegate. Calling of `setGlobal(String, Object)`  
\* will set the global on an internal `Collection`. Identifiers in this internal  
\* `Collection` will have priority over the externally supplied Globals delegate. If an identifier cannot be found in  
\* the internal `Collection`, it will then check the externally supplied Globals delegate, if one has been set.  
\* </p>  
\* <p>Code snippet for setting a global:</p>  
\* <pre>  
\* `StatefulKnowledgeSession ksession = kbase.newKieSession();`  
\* `ksession.setGlobal( "hbnSession", hibernateSession );` // sets a global hibernate session, that can be used for DB  
interactions in the rules.  
\* `for( Object fact : facts ) {`  
\* `ksession.insert( fact );`  
\* `}`  
\* `ksession.fireAllRules();` // this will now execute and will be able to resolve the "hbnSession" identifier.  
\* `ksession.dispose();`  
\* </pre>  
\* <p>  
\* Like `StatelessKnowledgeSession` this also implements `CommandExecutor` which can be used to script a  
`StatefulKnowledgeSession`. See `CommandExecutor`  
\* for more details.  
\* </p>  
\* @see `org.kie.api.runtime.Globals`  
\*/

Found in path(s):

\* `/opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/StatefulKnowledgeSession.java`

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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/fluent/runtime/process/ProcessFluent.java  
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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/RuleTemplateConfiguration.java  
\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/conf/ConstraintJittingThresholdOption.java  
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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/jaxb/CorrelationKeyXmlAdapter.java

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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/manager/RuntimeManagerIdFilter.java

\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskVariable.java

\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/api/TaskVariableIndexer.java

\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/utils/VariableIndexer.java

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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/exception/TaskError.java

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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/ResultSeverity.java

\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/conf/KBuilderSeverityOption.java

\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/builder/KnowledgeBuilderResult.java

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- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/weaver/KieWeaversImpl.java
- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/query/ExtendedParametrizedQueryBuilder.java
- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/Assembler/KieAssemblers.java
- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/task/query/TaskSummaryQueryBuilder.java
- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/ForceEagerActivationFilter.java
- \* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-jar/org/kie/internal/runtime/conf/RuntimeStrategy.java
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\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-  
jar/org/kie/internal/event/knowledgeagent/AfterChangeSetProcessedEvent.java  
\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-  
jar/org/kie/internal/builder/conf/DefaultDialectOption.java  
\* /opt/cola/permits/1114653397\_1607543387.9/0/kie-internal-6-5-0-final-sources-2-  
jar/org/kie/internal/KnowledgeBase.java

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jar/org/kie/internal/runtime/conf/ObjectModelResolverProvider.java
* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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* /opt/cola/permits/1114653397_1607543387.9/0/kie-internal-6-5-0-final-sources-2-
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\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/DelegatingStatement.java  
\* /opt/cola/permits/1006521779\_1602614316.44/0/com-springsource-org-apache-commons-dbc-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java  
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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToInteger.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodKey.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ReverseConverter.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/CompositeStringExpression.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToByte.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/collection/MapAdaptable.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionService.java

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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/StaticConversionExecutor.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionExecutorNotFoundException.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/Parameter.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToEnum.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/Parameters.java

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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/support/StaticExpression.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToClass.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/ConversionExecutor.java

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\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToObject.java

\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToShort.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToLong.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/TwoWayConverter.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToCharacter.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/mapping/impl/DefaultMapper.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/InvalidMethodKeyException.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ObjectToArray.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/method/MethodSignature.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToDouble.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/GenericConversionService.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/expression/Expression.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/StringToBoolean.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/converters/ArrayToArray.java  
\* /opt/cola/permits/1147791594\_1617098784.08/0/spring-binding-2-5-1-release-sources-2-jar/org/springframework/binding/convert/service/NoOpConverter.java

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# 1.95 javassist 3.19.0-GA

# 1.96 not-yet-commons-ssl 0.3.9

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```
* $HeadURL: http://juliusdavies.ca/svn/not-yet-commons-ssl/tags/commons-ssl-
0.3.9/src/java/org/apache/commons/ssl/ASN1Structure.java $
* $Revision: 121 $
* $Date: 2007-11-14 05:26:57 +0000 (Wed, 14 Nov 2007) $
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# 1.98 shiro-cache 1.6.0

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Found in path(s):

```
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/runtime/rule/Evaluator.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/AgendaGroupPoppedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/knowledgebase/AfterKnowledgePackageAddedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/process/ProcessVariableChangedEvent.java
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* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
jar/org/drools/event/rule/AgendaGroupPushedEvent.java
* /opt/cola/permits/1114653443_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-
```

jar/org/drools/event/knowledgebase/AfterProcessAddedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/BeforeKnowledgeBaseLockedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterKnowledgeBaseLockedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/RuleFlowGroupDeactivatedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/BeforeKnowledgePackageRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
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jar/org/drools/event/knowledgebase/BeforeKnowledgePackageAddedEvent.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/ActivationEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterRuleRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/AgendaGroupEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/BeforeProcessRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterRuleAddedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/BeforeActivationFiredEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/ActivationCreatedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterFunctionRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/process/ProcessStartedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/BeforeProcessAddedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/BeforeRuleRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/ObjectRetractedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/RuleFlowGroupEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/KnowledgeBaseEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-

jar/org/drools/event/knowledgebase/BeforeFunctionRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterProcessRemovedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/AgendaEventListener.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/process/ProcessEventListener.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterKnowledgeBaseUnlockedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/process/ProcessCompletedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/rule/ObjectUpdatedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/event/knowledgebase/AfterKnowledgePackageRemovedEvent.java  
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jar/org/drools/definition/type/Annotation.java  
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 \*/  
 /\*\*  
 \* StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession  
 \* allows the application to establish an iterative conversation with the engine, where the state of the  
 \* session is kept across invocations. The reasoning process may be triggered multiple times for the  
 \* same set of data. After the application finishes using the session, though, it **must** call the  
 \* `dispose()` method in order to free the resources and used memory.  
 \*  
 \*  
 \* 

<p>  
 \* Simple example showing a stateful session executing rules for a given collection of java objects.  
 \* </p>  
 \* <pre>  
 \* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();  
 \* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );  
 \* assertFalse( kbuilder.hasErrors() );  
 \* if ( kbuilder.hasErrors() ) {  
 \* System.out.println( kbuilder.getErrors() );  
 \* }  
 \* KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();  
 \* kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );  
 \*  
 \* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();  
 \* for( Object fact : facts ) {  
 \* ksession.insert( fact );  
 \* }  
 \* ksession.fireAllRules();  
 \* ksession.dispose();  
 \* </pre>  
 \*  
 \* 

<p>  
 \* Simple example showing a stateful session executing processes.  
 \* </p>  
 \* <pre>  
 \* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();  
 \* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );  
 \* KnowledgeBase kbase = kbuilder.newKnowledgeBase();  
 \* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();  
 \* ksession.startProcess("com.sample.processid");  
 \* ksession.signalEvent("SomeEvent", null);  
 \* ksession.startProcess("com.sample.processid");  
 \* ksession.dispose();  
 \* </pre>  
 \*  
 \* 

<p>

\* StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine (like data or service callbacks that can be used in your rules and processes), but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.

<p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a `NullPointerException`.

<p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object) will set the global on an internal Collection. Identifiers in this internal Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.

</p>

<p>Code snippet for setting a global:</p>

```
<pre>
* StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
* for( Object fact : facts ) {
*   ksession.insert( fact );
* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
</pre>
```

<p>

Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a StatefulKnowledgeSession. See CommandExecutor for more details.

</p>

@see org.drools.core.runtime.Globals

Found in path(s):

/opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatefulKnowledgeSession.java

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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/KnowledgeBaseConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/time/Calendar.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/QueryResults.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/KnowledgeBaseOptionsConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/QueryResultsRow.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/AgendaFilter.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/WorkItemManager.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Row.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/AfterChangeSetAppliedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/ShareAlphaNodesOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/ProcessStringEscapesOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Calendars.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/knowledgeagent/BeforeChangeSetAppliedEvent.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/WorkingMemoryEntryPoint.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/LogicalOverrideOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/RuleBuilder.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/PropertiesConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/ChangeSet.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-

jar/org/drools/runtime/rule/ActivationGroup.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/runtime/rule/Agenda.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/Service.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/management/KnowledgeSessionMonitoringMBean.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/builder/conf/ClassLoaderCacheOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/runtime/StatelessKnowledgeSessionResults.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/conf/SingleValueKnowledgeBaseOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/definition/KnowledgePackage.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/definition/type/FactField.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/runtime/rule/LiveQuery.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-  
jar/org/drools/runtime/conf/ClockTypeOption.java  
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jar/org/drools/util/ClassLoaderUtil.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/KnowledgeSessionConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/Variable.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/rule/Rule.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/ConsequenceExceptionHandler.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/ResourceConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/help/BatchExecutionHelperProvider.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/DecisionTableConfiguration.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessEventManager.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/MultiValueKnowledgeSessionOption.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/ExecutionResults.java  
\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/StatelessKnowledgeSession.java  
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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/process/ProcessContext.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/Option.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/builder/conf/AccumulateFunctionOption.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/conf/KnowledgeSessionOption.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/osgi/api/Activator.java

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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/MaxThreadsOption.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/SystemEventListenerService.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/Globals.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/runtime/rule/FactHandle.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/management/KBaseConfigurationMonitorMBean.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/rule/Query.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/ShareBetaNodesOption.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/event/process/ProcessNodeEvent.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/definition/process/WorkflowProcess.java

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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/conf/ConsequenceExceptionHandlerOption.java

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\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/WorkItemManagerKieAdapter.java

\* /opt/cola/permits/1114653443\_1607543454.76/0/knowledge-api-6-5-0-final-sources-1-jar/org/drools/impl/adapters/KnowledgeRuntimeAdapter.java

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## 1.101 bson4jackson 2.7.0

# 1.102 abego-treelayout-core 1.0.1

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## 1.105 bcprov-jdk15on 1.51

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- \* Poly1305 message authentication code, designed by D. J. Bernstein.
- \* <p>
- \* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
- \* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
- \* effective key bits) used in the authenticator.
- \* <p>
- \* The polynomial calculation in this implementation is adapted from the public domain <a
- \* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
- \* by Andrew M (@floodyberry).
- \* @see Poly1305KeyGenerator
- \*/

Found in path(s):

\* /opt/cola/permits/1262421618\_1643401923.99/0/bcprov-jdk15on-1-51-sources-jar/org/bouncycastle/crypto/mac/Poly1305.java

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```
* /opt/cola/permits/1262421618_1643401923.99/0/bcprov-jdk15on-1-51-sources-
jar/org/bouncycastle/apache/bzip2/BZip2Constants.java
* /opt/cola/permits/1262421618_1643401923.99/0/bcprov-jdk15on-1-51-sources-
jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java
* /opt/cola/permits/1262421618_1643401923.99/0/bcprov-jdk15on-1-51-sources-
jar/org/bouncycastle/apache/bzip2/CBZip2InputStream.java
* /opt/cola/permits/1262421618_1643401923.99/0/bcprov-jdk15on-1-51-sources-
jar/org/bouncycastle/apache/bzip2/CRC.java
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```
// now keep space is free to use
```

Found in path(s):

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jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java
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*/
```

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```
* /opt/cola/permits/1262421618_1643401923.99/0/bcprov-jdk15on-1-51-sources-
jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java
```

## 1.106 scalap 2.10.0

# 1.107 commons-validator 1.5.1

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## 1.108 java-jwt 3.8.3

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\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/privilegedactions/GetMethodFromPropertyName.java

\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/ConstraintValidatorContextImpl.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/ValidatorContextImpl.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/annotationfactory/AnnotationFactory.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/SizeValidatorForArraysOfDouble.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/metadata/ConstraintDescriptorImpl.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/privilegedactions/NewInstance.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/Range.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/metadata/ConstraintOrigin.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/privilegedactions/SetAccessibility.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/messageinterpolation/ResourceBundleMessageInterpolator.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/SizeValidatorForArraysOfShort.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/MinValidatorForNumber.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/FutureValidatorForCalendar.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/AssertFalseValidator.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/SizeValidatorForArraysOfPrimitives.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/Email.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/metadata/ConstraintHelper.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/util/privilegedactions/GetMethod.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/resolver/JPATraversableResolver.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/SizeValidatorForArray.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/engine/groups/Group.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/HibernateValidatorConfiguration.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/LengthValidator.java  
\* /opt/cola/permits/1114224921\_1611281833.65/0/hibernate-validator-4-1-0-final-sources-  
zip/org/hibernate/validator/constraints/impl/NullValidator.java

```
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/impl/PastValidatorForDate.java
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/engine/ValidatorFactoryImpl.java
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/CreditCardNumber.java
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/impl/NotNullValidator.java
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```
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/impl/URLValidator.java
* /opt/cola/permits/1114224921_1611281833.65/0/hibernate-validator-4-1-0-final-sources-
zip/org/hibernate/validator/constraints/URL.java
```

## 1.114 slf4j 1.7.25

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\* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/MDC.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/LoggerFactory.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/LocationAwareLogger.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/MessageFormatter.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NamedLoggerBase.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMDCBinder.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLogger.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPLogger.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticLoggerBinder.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/Util.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/FormattingTuple.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/MarkerFactory.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Marker.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/spi/MDCAdapter.java  
 \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarker.java

- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/Logger.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/IMarkerFactory.java
- \* /opt/cola/permits/1000740126\_1646171518.5/0/slf4j-api-1-7-25-sources-jar/org/slf4j/ILoggerFactory.java

# 1.115 xml-beans 2.6.0

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# 1.116 spring-security-config 3.2.4.RELEASE

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Found in path(s):

```
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/method/GlobalMethodSecurityBeanDefinitionParser.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/configuration/ObjectPostProcessorConfiguration.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/GlobalAuthenticationConfigurerAda
pter.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/JeeConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/method/configuration/EnableGlobalMethodSecurity.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/configuration/AutowireBeanFactoryObjectPostProcessor.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/AbstractRequestMatcherRegistry.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configuration/EnableWebSecurity.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/authentication/configurers/ldap/LdapAuthenticationProviderCon
figurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegist
ry.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
jar/org/springframework/security/config/annotation/web/configurers/LogoutConfigurer.java
* /opt/cola/permits/1114224846_1607455074.75/0/spring-security-config-3-2-4-release-sources-
```

jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecurityAspectJAutoProxyRegistrar.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/method/configuration/GlobalMethodSecuritySelector.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/RememberMeBeanDefinitionParser.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configuration/AutowiredWebSecurityConfigurersIgnoreParents.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/builders/WebSecurity.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/web/configuration/WebSecurityConfiguration.java

\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/AbstractSecurityBuilder.java

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\* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java

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- \* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/method/MethodConfigUtils.java
- \* /opt/cola/permits/1114224846\_1607455074.75/0/spring-security-config-3-2-4-release-sources-jar/org/springframework/security/config/http/FormLoginBeanDefinitionParser.java
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## 1.119 jep 2.4.2

## 1.120 json4s-native 3.2.5

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- \* /opt/cola/permits/1112015934\_1607033280.0/0/json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/Serialization.scala
- \* /opt/cola/permits/1112015934\_1607033280.0/0/json4s-native-2-10-3-2-5-sources-1-jar/org/json4s/native/JsonParser.scala

# 1.121 opentracing-spring-web-autoconfigure

## 0.3.2

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## 1.122 mongodb-driver 3.12.4

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- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterables.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/ClientSessionClock.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/MongoIterableFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ForEachHelper.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8FindIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java
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- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1084247322\_1598436419.43/0/mongodb-driver-3-12-4-sources-jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java

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jar/com/mongodb/client/internal/MongoCollectionImpl.java
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## 1.123 xsom 20110809

## 1.124 jersey-spring 2.24.1

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# 1.125 shiro-crypto-core 1.6.0

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The implementation for `org.apache.shiro.util.SoftHashMap` is based on initial ideas from Dr. Heinz Kabutz's publicly posted version available at <http://www.javaspecialists.eu/archive/Issue015.html>, with continued modifications.

Certain parts (`StringUtils`, `IpAddressMatcher`, etc.) of the source code for this product was copied for simplicity and to reduce dependencies from the source code developed by the Spring Framework Project (<http://www.springframework.org>).

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# 1.126 jetty-server 9.3.27.v20190418

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/** Set the TCP/IP port used for CONFIDENTIAL and INTEGRAL redirections.
 * @param securePort the secure port to redirect to.
 */
/** Set the URI scheme used for CONFIDENTIAL and INTEGRAL redirections.
 * @param secureScheme A scheme string like "https"
 */
```

Found in path(s):

\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpConfiguration.java

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\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-



jar/org/eclipse/jetty/server/session/HashSessionIdManager.java  
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jar/org/eclipse/jetty/server/ServerConnector.java  
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jar/org/eclipse/jetty/server/HttpInput.java  
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jar/org/eclipse/jetty/server/AsyncNCSARequestLog.java  
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\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-  
jar/org/eclipse/jetty/server/handler/RequestLogHandler.java  
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\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/HttpWriter.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/session/AbstractSessionManager.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/AsyncContextState.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/RequestLog.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/jmx/AbstractHandlerMBean.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipHttpOutputInterceptor.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/DefaultHandler.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/gzip/GzipFactory.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/ContextHandler.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/ServletResponseHttpWrapper.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/SslConnectionFactory.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/NetworkConnector.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Handler.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/handler/jmx/package-info.java  
\* /opt/cola/permits/1113053003\_1607377274.51/0/jetty-server-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/server/Slf4jRequestLog.java

# 1.127 accessors-smart 1.2

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```
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/DynamicClassLoader.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/Accessor.java
* /opt/cola/permits/1177937262_1625568439.63/0/accessors-smart-1-2-sources-5-
jar/net/minidev/asm/ASMUtil.java
```

# 1.128 metrics-core 4.1.0

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## 1.129 spring-boot-autoconfigure

### 1.5.12.RELEASE

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Found in path(s):

```
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/BasicErrorController.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisXAConnectionFactoryConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CouchbaseCacheConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/WebMvcAutoConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionAutoConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/SearchStrategy.java
```

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryFactory.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/client/EnableOAuth2SsoCondition.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/OnBeanCondition.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionCondition.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/BeanTypeRegistry.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/AbstractErrorController.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/RedisAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/RedisSessionConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/flyway/FlywayAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheCondition.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/SecurityProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/EmbeddedDatabaseConnection.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/context/MessageSourceAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ResourceProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/batch/BatchAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2RestOperationsConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/OnPropertyCondition.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ServerPropertiesAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ServerProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraDataAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheType.java

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\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/package-info.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/metadata/HikariDataSourcePoolMetadata.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesRegistrar.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/JettyWebSocketContainerCustomizer.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializedEvent.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/solr/SolrProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/gson/GsonAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/TomcatWebSocketContainerCustomizer.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializerPostProcessor.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/UndertowWebSocketContainerCustomizer.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/template/TemplateLocation.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchRepositoriesRegistrar.java  
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- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/JndiConnectionFactoryAutoConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/RedisRepositoriesAutoConfigureRegistrar.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jersey/ResourceConfigCustomizer.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ErrorMvcAutoConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/transaction/PlatformTransactionManagerCustomizer.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationExcludeFilter.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/kafka/KafkaProperties.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/JndiSessionConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/XADataSourceAutoConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceBeanCreationFailureAnalyzer.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2SsoDefaultConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mustache/web/MustacheViewResolver.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnCloudPlatform.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/SecurityFilterAutoConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/JmsAutoConfiguration.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cassandra/CassandraProperties.java
- \* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mobile/DeviceResolverAutoConfiguration.java
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\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnNotWebApplication.java

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\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerTemplateAvailabilityProvider.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/OAuth2ResourceServerConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/ldap/package-info.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/DataSourceAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/EnableAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/ResourceServerTokenServicesConfiguration.java  
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\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnMissingBean.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateJpaAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/social/FacebookProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationPackages.java  
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\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/mongo/MongoRepositoriesAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/validation/ValidationAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mobile/DeviceDelegatingViewResolverProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationImportFilter.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/DefaultUserInfoRestTemplateFactory.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ldap/embedded/EmbeddedLdapAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQProperties.java  
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jar/org/springframework/boot/autoconfigure/condition/ConditionMessage.java  
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jar/org/springframework/boot/autoconfigure/AutoConfigurationImportSelector.java  
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jar/org/springframework/boot/autoconfigure/cache/JCacheCacheConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceProperties.java  
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jar/org/springframework/boot/autoconfigure/transaction/TransactionAutoConfiguration.java  
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jar/org/springframework/boot/autoconfigure/security/oauth2/method/OAuth2MethodSecurityConfiguration.java  
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jar/org/springframework/boot/autoconfigure/condition/ConditionalOnBean.java  
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jar/org/springframework/boot/autoconfigure/security/oauth2/client/OAuth2ProtectedResourceDetailsConfiguration.j  
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jar/org/springframework/boot/autoconfigure/transaction/jta/BitronixJtaConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jProperties.java  
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jar/org/springframework/boot/autoconfigure/social/LinkedInProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/template/PathBasedTemplateAvailabilityProvider.java  
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jar/org/springframework/boot/autoconfigure/h2/H2ConsoleProperties.java  
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jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseProperties.java  
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jar/org/springframework/boot/autoconfigure/condition/NoneNestedConditions.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnSingleCandidate.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
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jar/org/springframework/boot/autoconfigure/AutoConfigurationSorter.java  
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jar/org/springframework/boot/autoconfigure/data/ldap/LdapDataAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/info/ProjectInfoProperties.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/JndiDataSourceAutoConfiguration.java  
\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/SpringBootApplication.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ImportAutoConfigurationImportSelector.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jersey/JerseyProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/DatabaseLookup.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/transaction/jta/NarayanaJtaConfiguration.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ldap/LdapAutoConfiguration.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoRestTemplateFactory.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/ldap/package-info.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/flyway/FlywayProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mustache/MustacheCompilerFactoryBean.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/ResourceServerProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/OnEnabledResourceChainCondition.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionEvaluationReportAutoConfigurationImportListener.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/OAuth2ClientProperties.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadata.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/AllNestedConditions.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/MessageSourceAutoConfiguration.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchDataAutoConfiguration.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/JwtAccessTokenConverterRestTemplateCustomizer.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizers.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jDataAutoConfiguration.java

\* /opt/cola/permits/1112362173\_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-jar/org/springframework/boot/autoconfigure/orm/jpa/JpaProperties.java

```
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/ImportAutoConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
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* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/UserInfoTokenServices.java
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jar/org/springframework/boot/autoconfigure/cache/HazelcastJCacheCustomizationConfiguration.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/SpringBootCondition.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/WebMvcProperties.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/WebMvcValidator.java
* /opt/cola/permits/1112362173_1607072356.14/0/spring-boot-autoconfigure-1-5-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/webservices/WebServicesProperties.java
```

## 1.130 jsonld-java-sesame 0.5.0

### 1.131 objenesis 2.5.1

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## 1.132 commons-lang3 2.4.0

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## 1.133 jeromq 0.3.2

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## 1.134 semargl-rdfa 0.6.1

# 1.135 okhttp 3.9.0

## 1.136 owlapi-rio 4.2.7

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## 1.137 owlapi-parsers 4.2.7

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## 1.138 icu4j 63.1

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## 1.146 jaxb-api 2.3.1

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\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/authz/AbstractAuthorizeTag.java

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\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/authz/AccessControlListTag.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/velocity/AuthzImpl.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/authz/AuthenticationTag.java

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\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/TagLibConfig.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/CsrfInputTag.java  
\* /opt/cola/permits/1114224936\_1607455089.04/0/spring-security-taglibs-3-2-4-release-sources-1-jar/org/springframework/security/taglibs/csrf/AbstractCsrfTag.java

# 1.149 spring-bridge 2.5.0-b05

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* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/http/xml/AbstractXmlHttpContent.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/http/xml/atom/AtomFeedParser.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/Xml.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/atom/AbstractAtomFeedParser.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/GenericXml.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/atom/Atom.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/http/xml/package-info.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/http/xml/XmlHttpContent.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/atom/package-info.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/XmlObjectParser.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
jar/com/google/api/client/xml/XmlNamespaceDictionary.java
* /opt/cola/permits/1116601670_1608023134.15/0/google-http-client-xml-1-20-0-sources-2-
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jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java
* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/ParamTag.java
* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/tags/HtmlEscapingAwareTag.java
* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
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jar/org/springframework/web/servlet/tags/ArgumentAware.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java  
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jar/org/springframework/web/servlet/FlashMap.java  
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jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java  
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jar/org/springframework/web/servlet/view/AbstractTemplateView.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/resource/ResourceTransformerChain.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/resource/VersionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/resource/ResourceResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/view/script/ScriptTemplateConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsxView.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-  
jar/org/springframework/web/servlet/resource/TransformedResource.java  
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jar/org/springframework/web/servlet/resource/VersionPathStrategy.java  
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jar/org/springframework/web/servlet/support/RequestContextUtils.java  
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jar/org/springframework/web/servlet/view/groovy/GroovyMarkupConfig.java  
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jar/org/springframework/web/servlet/ViewRendererServlet.java  
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jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java  
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jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java  
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jar/org/springframework/web/servlet/tags/ArgumentTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-

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```

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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
*/

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/config/annotation/ViewResolverRegistry.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.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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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltView.java

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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/support/AbstractAnnotationConfigDispatcherServletInitializer.java

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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/ModelAndViewDefiningException.java

\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/ParamAware.java

\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/tags/form/ErrorsTag.java

\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/tiles3/AbstractSpringPreparerFactory.java

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## 1.153 shiro-crypto-hash 1.6.0

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\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/concurrent/KieExecutors.java  
\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/KieSessionModel.java  
\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/builder/model/QualifierModel.java  
\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/executor/Reoccurring.java

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\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/process/ProcessEventListener.java

\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/MatchEvent.java

\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiabase/AfterFunctionRemovedEvent.java

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\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/rule/AgendaGroupPushedEvent.java

\* /opt/cola/permits/1114653403\_1607543522.84/0/kie-api-6-5-0-final-sources-2-jar/org/kie/api/event/kiabase/AfterKiePackageAddedEvent.java

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jar/org/kie/api/event/rule/MatchCancelledEvent.java  
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 */
/**
 * KieSession is the most common way to interact with the engine. A KieSession
 * allows the application to establish an iterative conversation with the engine, where the state of the
 * session is kept across invocations. The reasoning process may be triggered multiple times for the
 * same set of data. After the application finishes using the session, though, it must call the
 * dispose() method in order to free the resources and used memory.
 *
 * <p>
 * Simple example showing a KieSession executing rules for a given collection of java objects.
 * </p>
 * <pre>
 * KieServices kieServices = KieServices.Factory.get();
 * KieContainer kContainer = kieServices.getKieClasspathContainer();
 * KieSession kSession = kContainer.newKieSession();
 *
 * for( Object fact : facts ) {
 * kSession.insert( fact );
 * }
 * kSession.fireAllRules();
 * kSession.dispose();
 * </pre>
 *
 * <p>
 * Simple example showing a stateful session executing processes.
 * </p>
 * <pre>
 * KieSession kSession = kbase.newKieSession();
 * kSession.startProcess("com.sample.processid");
 * kSession.signalEvent("SomeEvent", null);
 * kSession.startProcess("com.sample.processid");
 * kSession.dispose();
 * </pre>
 *
 */

```

\* <p>

\* KieSession support globals. Globals are used to pass information into the engine (like data or service callbacks that can be used in your rules and processes), but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.</p>

\* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a <code>NullPointerException</code>. </p>

\* <p>Globals can be resolved in two ways. The KieSession supports getGlobals() which returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object) will set the global on an internal Collection. Identifiers in this internal Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.</p>

\* </p>

\* <p>Code snippet for setting a global:</p>

```
* <pre>
* KieSession ksession = kbase.newKieSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
* for( Object fact : facts ) {
* ksession.insert( fact );
* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
* </pre>
```

\* <p>

\* Like StatelessKieSession this also implements CommandExecutor which can be used to script a KieSession. See CommandExecutor for more details.</p>

\* </p>

\* @see Globals</p>

\* /

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jar/org/kie/api/definition/type/Label.java  
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## 1.158 jzlib 1.0.7

## 1.159 semargl-sesame 0.6.1

## 1.160 hk2-api 2.5.0-b05

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## 1.161 netty-all 4.1.46.Final

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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</a>
 * for more details.
 */
```

Found in path(s):

```
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
```

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```
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
```

```
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/Cleaner.java
```

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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Found in path(s):

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpNotificationHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/worldclock/WorldClockProtocol.proto  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpServerChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/nio/NioSctpChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpServerChannelConfig.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/channel/udt/nio/NioUdtProvider.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/sctp/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/traffic/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/traffic/TrafficCounter.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/UdtChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/ByteProcessorUtils.java

```
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/ResourcesUtil.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.
*/

```

Found in path(s):

```

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/channel/ChannelHandler.java

```

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```
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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* License for the specific language governing permissions and limitations
* under the License.
*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

Found in path(s):

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/base64/Base64.java

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Found in path(s):

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/NativeLongArray.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ThrowableUtil.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2DataFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/BooleanSupplier.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2GoAwayFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/redis/RedisClientHandler.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpResponseDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/bootstrap/ServerBootstrapConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsCache.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpCommand.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/frame/server/Http2Server.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/RoundRobinDnsAddressResolverGroup.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DefaultHttp2DataFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2ResetFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/DuplexChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStream.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultLastSmtpContent.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakTracker.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractHttp2StreamFrame.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/PeerCredentials.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketChunkedInput.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/group/VoidChannelGroupFuture.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2Server.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueChannelOption.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DefaultDnsCache.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequests.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodec.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/DefaultSmtpResponse.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MacAddressUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/InflightNameResolver.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxySSLTLV.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsPtrRecord.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpRequestEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueEventArray.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamException.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2HeadersFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/smtp/SmtpContent.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOptEcsRecord.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flow/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameStreamVisitor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserver.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java

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jar/io/netty/example/redis/RedisClient.java  
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jar/io/netty/handler/codec/redis/ArrayRedisMessage.java  
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jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java  
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jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/redis/SimpleStringRedisMessage.java  
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jar/io/netty/handler/codec/redis/IntegerRedisMessage.java  
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jar/io/netty/handler/codec/redis/RedisArrayAggregator.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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jar/io/netty/handler/codec/redis/BulkStringHeaderRedisMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/redis/BulkStringRedisContent.java  
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jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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/**
```

- \* Set the { @code TCP\_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
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  - \* Allowing them being read would mean anyone with access to the channel could get them.
- \*/

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/HttpServer.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ClientAuth.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/tiles/FallbackRequestHandler.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/CharSequenceMap.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsResponseDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java

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jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/xml/XmlElement.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/xml/XmlDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/stomp/StompFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/epoll/EpollDatagramChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/resolver/dns/DnsQueryContext.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/epoll/EpollServerSocketChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/example/file/FileServerHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/stomp/DefaultStompContentSubframe.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/unix/UnixChannelOption.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/stomp/StompSubframeDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/proxy/ProxyConnectionEvent.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/stomp/StompConstants.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/unix/IovArray.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/ServerCookieEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttPublishVariableHeader.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/HttpHeadersEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/resolver/NameResolver.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/internal/tcnative/CertificateVerifier.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/mqtt/MqttMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/json/package-info.java  
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jar/io/netty/handler/codec/http2/Http2FrameLogger.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/memcache/binary/MemcacheClientHandler.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlDTD.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/StompCommand.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/client/SpdyClient.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttSubscribePayload.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http2/helloworld/server/Http2Server.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/DnsNameResolver.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageFactory.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/server/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlElementEnd.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/haproxy/HAProxyMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttMessageType.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/AbstractEventLoop.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompHeaders.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttConnectVariableHeader.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/stomp/DefaultStompFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttVersion.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttTopicSubscription.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/server/SpdyServer.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/PendingWriteQueue.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/Mapping.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerHandler.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/DomainNameMapping.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServerBenchmarkPage.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/spdy/server/SpdyOrHttpHandler.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/Crc32.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/haproxy/HAProxyCommand.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/stomp/StompSubframe.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/xml/XmlElementStart.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/example/spdy/client/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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jar/io/netty/handler/codec/haproxy/HAProxyProtocolVersion.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateEncoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ThreadDeathWatcher.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttUnsubscribeMessage.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlEntityReference.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/xml/XmlComment.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/IntegerHolder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/AsciiString.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/mqtt/MqttFixedHeader.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http/websocketx/benchmarkserver/WebSocketServer.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/example/spdy/server/SpdyServerInitializer.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/package-info.java

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jar/io/netty/example/ocsp/OcspServerExample.java

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jar/io/netty/example/ocsp/OcspUtils.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/UniformStreamByteDistributor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2StreamVisitor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapterBuilder.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/MathUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ByteProcessor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/StreamByteDistributor.java

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jar/io/netty/util/internal/logging/FormattingTuple.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/logging/MessageFormatter.java

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jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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\* Enumeration of supported Base64 dialects.

\* <p>

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- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
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- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/socksproxy/SocksServerHandler.java
- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/Constant.java
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/HttpData.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/rendezvous/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/Delimiters.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/sctp/package-info.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/Signal.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/CompleteChannelFuture.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/ChannelFuture.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/SlicedByteBuf.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/proxy/HexDumpProxy.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/localecho/LocalEchoClientHandler.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/Channel.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/CodecException.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/ByteBuf.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/HttpMessage.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/example/telnet/TelnetClientInitializer.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
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jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/Cookie.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/example/echo/EchoClient.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/Attribute.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/SocketChannel.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/qotm/QuoteOfTheMomentClient.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/discard/DiscardClientHandler.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/NoopDnsCnameCache.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/resolver/dns/AuthoritativeDnsServerCacheAdapter.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
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- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/internal/tcnative/Library.java
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/DefaultBinaryMemcacheRequest.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/EmptyByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ResourceLeakDetector.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/group/ChannelMatchers.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/channel/ConnectTimeoutException.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/logging/package-info.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/concurrent/FutureListener.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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jar/io/netty/handler/codec/spdy/SpdyFrame.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java  
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jar/io/netty/handler/codec/xml/XmlFrameDecoder.java  
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jar/io/netty/channel/ChannelId.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java  
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jar/io/netty/buffer/ByteBufProcessor.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

jar/io/netty/util/internal/PlatformDependent0.java  
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jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java  
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jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java  
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jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java  
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jar/io/netty/channel/udt/DefaultUdtServerChannelConfig.java  
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jar/io/netty/util/internal/NoOpTypeParameterMatcher.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/channel/group/ChannelGroupException.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/ConstantPool.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/PromiseTask.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/ProgressiveFuture.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/concurrent/ScheduledFutureTask.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/buffer/WrappedByteBuf.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheMessage.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/Version.java

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- \* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/svm/package-info.java
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jar/io/netty/handler/codec/dns/DnsCodecUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/dns/DnsQueryEncoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/ThreadExecutorMap.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/compression/Lz4XXHash32.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/dns/TcpDnsResponseDecoder.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/resolver/dns/PreferredAddressTypeComparator.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.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 | 0x0000C | "HELLO, WORLD" | | 0xCAFE | 0x0000C | "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 |
```

```
* | 0x0000C | 0xCAFE | "HELLO, WORLD" | | 0x0000C | 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
*/

```

Found in path(s):

```

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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```

*/

```

```

// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

```

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```

* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-

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jar/io/netty/handler/codec/http2/HttpConversionUtil.java

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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/InternalLogger.java

\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/logging/JdkLogger.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCUnboundedArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentCircularArrayQueue.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashSet.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCGrowArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/SupportsIterator.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java  
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/LinkedListNode.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeRefArrayAccess.java  
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jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Ordering.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedListAtomicNode.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java  
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jar/io/netty/util/internal/shaded/org/jctools/queues/spec/Preference.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCChunkedArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/AtomicQueueFactory.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedListArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/SpMPCArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpMPCAtomicArrayQueue.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddChunk.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java  
\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-

```
jar/io/netty/util/internal/shaded/org/jctools/queues/package-info.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/cola/permits/1124846553_1611185831.39/0/netty-all-4-1-46-final-sources-
jar/io/netty/util/internal/shaded/org/jctools/queues/SpSCArrayQueue.java
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\* /opt/cola/permits/1124846553\_1611185831.39/0/netty-all-4-1-46-final-sources-  
jar/io/netty/handler/codec/http/websocketx/Utf8Validator.java

## 1.162 grpc-protobuf-lite 1.9.0

## 1.163 sesame-rio-languages 2.7.16

## 1.164 xml-apis 1.4.01

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jar/org/springframework/amqp/support/converter/JsonMessageConverter.java
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jar/org/springframework/amqp/support/converter/Jackson2JsonMessageConverter.java
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jar/org/springframework/amqp/support/converter/DefaultJavaTypeMapper.java
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\* Special exception for listener implementations that want to signal that the current batch of messages should be  
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\*  
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jar/org/springframework/amqp/core/ExchangeTypes.java
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jar/org/springframework/amqp/core/AbstractDeclarable.java
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jar/org/springframework/amqp/core/TopicExchange.java

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jar/org/springframework/amqp/core/FanoutExchange.java

\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-  
jar/org/springframework/amqp/core/UniquelyNamedQueue.java

\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/HeadersExchange.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/UncategorizedAmqpException.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessageListener.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessagePostProcessor.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/core/MessageDeliveryMode.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpException.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpIOException.java  
\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/AmqpIllegalStateException.java

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\* /opt/cola/permits/1147791502\_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-jar/org/springframework/amqp/support/converter/SerializerMessageConverter.java

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jar/org/springframework/amqp/remoting/service/AmqpInvokerServiceExporter.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/Exchange.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/Message.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/support/converter/AbstractMessageConverter.java
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jar/org/springframework/amqp/core/Binding.java
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jar/org/springframework/amqp/core/AmqpAdmin.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/core/BindingBuilder.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
jar/org/springframework/amqp/remoting/client/AmqpClientInterceptor.java
* /opt/cola/permits/1147791502_1617098636.21/0/spring-amqp-1-2-0-release-sources-2-
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jar/org/springframework/context/ApplicationEventPublisherAware.java

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- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/jndi/JndiAccessor.java
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*/
/**
* 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
*/

```

Found in path(s):

```
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
```

jar/org/springframework/context/annotation/Conditional.java

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\* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteTimeoutException.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/TRIX2r">{ @code MBeanFactory }</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

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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
 */
```

Found in path(s):

```
* /opt/cola/permits/1147791434_1617098523.05/0/spring-context-4-3-19-release-sources-3-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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```

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 */
```

Found in path(s):

- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/remoting/RemoteAccessException.java
- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/ assembler/AbstractConfigurableMBeanInfoAssembler.java

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- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/annotation/ScopedProxyCreator.java
- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/jmx/export/MBeanExportOperations.java
- \* /opt/cola/permits/1147791434\_1617098523.05/0/spring-context-4-3-19-release-sources-3-jar/org/springframework/context/LifecycleProcessor.java

## 1.173 relaxngdatatype 20020414

## 1.174 jetty-client 9.3.27.v20190418

## 1.175 checker 1.9.13

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jar/com/ibm/icu/impl/ICURegionDataTables.java

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jar/com/ibm/icu/impl/ICULangDataTables.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/locale/LocaleSyntaxException.java

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

```

/*****
* Copyright (C) 2000-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****/
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/ChineseDateFormatSymbols.java

```

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

```

/*
* @(#)TimeZone.java 1.51 00/01/19
*
* Copyright (C) 1996-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZone.java

```

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

```

/*
*****/
* Copyright (C) 2009-2011, Google, International Business Machines Corporation
* and others. All Rights Reserved.
*****/
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CaseFoldTransliterator.java

```

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

```

/*
*****/
* Copyright (C) 2013-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****/
* ContractionsAndExpansions.java, ported from collationsets.h/cpp
*
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/ContractionsAndExpansions.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2003-2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IDNA2003.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2001-2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiWriter.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2000-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer.java  
No license file was found, but licenses were detected in source scan.

```
/**
*****
* Copyright (C) 2001-2015, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICULocaleService.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationBuilder.java, ported from collationbuilder.h/.cpp
*
* C++ version created on: 2013may06
* created by: Markus W. Scherer
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/coll/CollationBuilder.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2001-2008, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/text/ArabicShapingException.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2007-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/duration/BasicPeriodFormatterService.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/duration/impl/XMLRecordWriter.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2004-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarData.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2014, International Business Machines Corporation and

\* others. All Rights Reserved.

\*\*\*\*\*

\*

\* created on: 2014feb10

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UVector32.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UVector64.java

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

/\*\*

\*\*\*\*\*

\* Copyright (C) 2001-2013, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUService.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CaseInsensitiveString.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICURWLock.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2003-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleScanner.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2013-2014, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UFieldPosition.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/QuantityFormatter.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralSamples.java

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

/\*\*\*\*\*\*

\* Copyright (C) 2000-2014, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ChineseCalendar.java

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

/\*\*

\*\*\*\*\*

\* Copyright (C) 2001-2014, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/OverlayBundle.java

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

/\*\*\*\*\*\*

\* COPYRIGHT:

\* Copyright (c) 2001-2010, International Business Machines Corporation and

\* others. All Rights Reserved.

\*\*\*\*\*/

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBINode.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2012-2014, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* IterCollationIterator.java, ported from uitercollationiterator.h/.cpp

\*

\* C++ version created on: 2012sep23 (from utf16collationiterator.h)

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/IterCollationIterator.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2010-2014, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* FCDUTF16CollationIterator.java, ported from utf16collationiterator.h/.cpp

\*

\* C++ version created on: 2010oct27

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/FCDUTF16CollationIterator.java

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

/\*

\* Copyright (C) 2008-2015, International Business Machines

\* Corporation and others. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalFormat.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2002-2009 International Business Machines Corporation \*

\* and others. All rights reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISymbolTable.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2009-2015, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleDisplayNamesImpl.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyDisplayNames.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LocaleDisplayNames.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyMetaInfo.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2008-2009, Google, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnitAmount.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 1996-2015, International Business Machines Corporation and

\* others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TrieIterator.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2010-2015, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* CollationData.java, ported from collationdata.h.cpp

\*

\* C++ version created on: 2010oct27

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationData.java

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

```
/*
*****
* Copyright (C) 2001-2011, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Quantifier.java

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

```
/**
*****
* Copyright (C) 2003-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
* Partial port from ICU4C's Grego class in i18n/gregoimp.h.
*
* Methods ported, or moved here from OlsonTimeZone, initially
* for work on Jitterbug 5470:
* tzdata2006n Brazil incorrect fall-back date 2009-mar-01
* Only the methods necessary for that work are provided - this is not a full
* port of ICU4C's Grego class (yet).
*
* These utilities are used by both OlsonTimeZone and SimpleTimeZone.
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Grego.java

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

```
/*
*****
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* UTF16CollationIterator.java, ported from utf16collationiterator.h/cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/UTF16CollationIterator.java

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

```
/*
*****
* Copyright (C) 2011-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* created on: 2011jul14
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePatternUtil.java  
No license file was found, but licenses were detected in source scan.

// All Rights Reserved.

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIRuleBuilder.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2007-2011, International Business Machines Corporation and others.
* All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TextTrieMap.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2003-2010, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/text/RBBIRuleParseTable.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
```

```
*****
*   created on: 2010nov23
*   created by: Markus W. Scherer
*   ported from ICU4C bytestrie.h/.cpp
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrie.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*****
```

```
* Copyright (C) 2003-2015, International Business Machines Corporation and
* others. All Rights Reserved.
```

```
*****
```

```
*
```

```
* Created on May 2, 2003
```

```
*
```

```
* To change the template for this generated file go to
* Window>Preferences>Java>Code Generation>Code and Comments
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/StringPrepDataReader.java
```

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

```
/*
```

```
*****
```

```
* Copyright (C) 2010-2013, International Business Machines Corporation and *
* others. All Rights Reserved. *
```

```
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/locale/LanguageTag.java
```

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

```
/*
```

```
*****
```

```
* Copyright (C) 2003-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
```

```
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
```

jar/com/ibm/icu/text/StringPrepParseException.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/IDNA.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2012-2015, International Business Machines Corporation and *  
* others. All Rights Reserved. *  
*****  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DisplayContext.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2012-2014, International Business Machines  
* Corporation and others. All Rights Reserved.  
*****  
* FCDIterCollationIterator.java, ported from uitercollationiterator.h/.cpp  
*  
* C++ version created on: 2012sep23 (from utf16collationiterator.h)  
* created by: Markus W. Scherer  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/FCDIterCollationIterator.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2013-2015, International Business Machines  
* Corporation and others. All Rights Reserved.  
*****  
* CollationTailoring.java, ported from collationtailoring.h/.cpp  
*  
* C++ version created on: 2013mar12  
* created by: Markus W. Scherer  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationTailoring.java  
No license file was found, but licenses were detected in source scan.

```
/*
```

```
*****
* Copyright (C) 2004-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*
* Created on Feb 4, 2004
*
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUData.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
*
* Copyright (C) 2004-2010, International Business Machines
* Corporation and others. All Rights Reserved.
*
*****
* file name: ReplaceableContextIterator.java
* encoding: US-ASCII
* tab size: 8 (not used)
* indentation:4
*
* created on: 2005feb04
* created by: Markus W. Scherer
*
* Implementation of UCaseProps.ContextIterator, iterates over a Replaceable.
* Java port of casetrn.cpp/utrans_rep_caseContextIterator().
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/ReplaceableContextIterator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2013, Google Inc, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/PluralRulesSerialProxy.java
```

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

```
/*
*****
* Copyright (C) 2012-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationFCD.java, ported from collationfcd.h/.cpp
*
* C++ version created on: 2012aug18
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationFCD.java

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

```
/*
*****
* Copyright (C) 2009-2010, Google, International Business Machines Corporation *
* and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Transform.java

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

```
/*
*****
* Copyright (c) 2002-2009, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBITableBuilder.java

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

```
/*
*****
* Copyright (C) 1996-2014, International Business Machines Corporation and *
* others. All Rights Reserved.
*****
*/
```

```
/**
* <code>RuleBasedTransliterator</code> is a transliterator
* that reads a set of rules in order to determine how to perform
```

\* translations. Rule sets are stored in resource bundles indexed by  
 \* name. Rules within a rule set are separated by semicolons (;).  
 \* To include a literal semicolon, prefix it with a backslash (\).  
 \* Unicode Pattern\_White\_Space is ignored.  
 \* If the first non-blank character on a line is '#',  
 \* the entire line is ignored as a comment. </p>  
 \*  
 \* <p>Each set of rules consists of two groups, one forward, and one  
 \* reverse. This is a convention that is not enforced; rules for one  
 \* direction may be omitted, with the result that translations in  
 \* that direction will not modify the source text. In addition,  
 \* bidirectional forward-reverse rules may be specified for  
 \* symmetrical transformations.</p>  
 \*  
 \* <p><b>Rule syntax</b></p>  
 \*  
 \* <p>Rule statements take one of the following forms: </p>  
 \*  
 \* <dl>  
 \* <dt><code>\$alefmadda=\u0622;</code></dt>  
 \* <dd><strong>Variable definition.</strong> The name on the  
 \* left is assigned the text on the right. In this example,  
 \* after this statement, instances of the left hand name,  
 \* &quot;<code>\$alefmadda</code>&quot;, will be replaced by  
 \* the Unicode character U+0622. Variable names must begin  
 \* with a letter and consist only of letters, digits, and  
 \* underscores. Case is significant. Duplicate names cause  
 \* an exception to be thrown, that is, variables cannot be  
 \* redefined. The right hand side may contain well-formed  
 \* text of any length, including no text at all (&quot;<code>\$empty=</code>&quot;).  
 \* The right hand side may contain embedded <code>UnicodeSet</code>  
 \* patterns, for example, &quot;<code>\$softvowel=[eiyEIY]</code>&quot;.</dd>  
 \* <dd>&nbsp;</dd>  
 \* <dt><code>ai>\$alefmadda;</code></dt>  
 \* <dd><strong>Forward translation rule.</strong> This rule  
 \* states that the string on the left will be changed to the  
 \* string on the right when performing forward  
 \* transliteration.</dd>  
 \* <dt>&nbsp;</dt>  
 \* <dt><code>ai<\$alefmadda;</code></dt>  
 \* <dd><strong>Reverse translation rule.</strong> This rule  
 \* states that the string on the right will be changed to  
 \* the string on the left when performing reverse  
 \* transliteration.</dd>  
 \* </dl>  
 \*  
 \* <dl>  
 \* <dt><code>ai<&gt;\$alefmadda;</code></dt>

```

* <dd><strong>Bidirectional translation rule.</strong> This
* rule states that the string on the right will be changed
* to the string on the left when performing forward
* transliteration, and vice versa when performing reverse
* transliteration.</dd>
* </dl>
*
* <p>Translation rules consist of a <em>match pattern</em> and an <em>output
* string</em>. The match pattern consists of literal characters,
* optionally preceded by context, and optionally followed by
* context. Context characters, like literal pattern characters,
* must be matched in the text being transliterated. However, unlike
* literal pattern characters, they are not replaced by the output
* text. For example, the pattern &quot;<code>abc{def}</code>&quot;
* indicates the characters &quot;<code>def</code>&quot; must be
* preceded by &quot;<code>abc</code>&quot; for a successful match.
* If there is a successful match, &quot;<code>def</code>&quot; will
* be replaced, but not &quot;<code>abc</code>&quot;. The final '<code>}'</code>'
* is optional, so &quot;<code>abc{def}</code>&quot; is equivalent to
* &quot;<code>abc{def}</code>&quot;. Another example is &quot;<code>{123}456</code>&quot;
* (or &quot;<code>123}456</code>&quot;) in which the literal
* pattern &quot;<code>123</code>&quot; must be followed by &quot;<code>456</code>&quot;.
* </p>
*
* <p>The output string of a forward or reverse rule consists of
* characters to replace the literal pattern characters. If the
* output string contains the character '<code>|</code>', this is
* taken to indicate the location of the <em>cursor</em> after
* replacement. The cursor is the point in the text at which the
* next replacement, if any, will be applied. The cursor is usually
* placed within the replacement text; however, it can actually be
* placed into the preceding or following context by using the
* special character '<code>@</code>'. Examples:</p>
*
* <blockquote>
* <p><code>a {foo} z &gt; | @ bar; # foo -&gt; bar, move cursor
* before a<br>
* {foo} xyz &gt; bar @@|; #&nbsp;foo -&gt; bar, cursor between
* y and z</code></p>
* </blockquote>
*
* <p><b>UnicodeSet</b></p>
*
* <p><code>UnicodeSet</code> patterns may appear anywhere that
* makes sense. They may appear in variable definitions.
* Contrariwise, <code>UnicodeSet</code> patterns may themselves
* contain variable references, such as &quot;<code>$a=[a-z];$not_a=[^$a]</code>&quot;,
* or &quot;<code>$range=a-z;$ll=[$range]</code>&quot;.</p>

```





```

*   there is a match...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>ade|abcdefz</code></td>
*   <td valign="top">...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adef|abcdefz</code></td>
*   <td valign="top">...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adefa|bcdefz</code></td>
*   <td valign="top">...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adefab|cdefz</code></td>
*   <td valign="top">...</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adefabc|defz</code></td>
*   <td valign="top">Rule 1 matches; replace &quot;<code>def</code>&quot;;
*   with &quot;<code>xy</code>&quot;; and back up the cursor
*   to before the '<code>y</code>'.</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adefabcx|yz</code></td>
*   <td valign="top">Although &quot;<code>xyz</code>&quot;; is
*   present, rule 2 does not match because the cursor is
*   before the '<code>y</code>', not before the '<code>x</code>'.
*   Rule 3 does match. Replace &quot;<code>yz</code>&quot;;
*   with &quot;<code>q</code>&quot;.</td>
* </tr>
* <tr>
*   <td valign="top" nowrap><code>adefabcxq</code></td>
*   <td valign="top">The cursor is at the end;
*   transliteration is complete.</td>
* </tr>
* </table>
*
* <p>The order of rules is significant. If multiple rules may match
* at some point, the first matching rule is applied. </p>
*
* <p>Forward and reverse rules may have an empty output string.
* Otherwise, an empty left or right hand side of any statement is a
* syntax error. </p>
*
* <p>Single quotes are used to quote any character other than a
* digit or letter. To specify a single quote itself, inside or

```

```

* outside of quotes, use two single quotes in a row. For example,
* the rule &quot;<code>'&gt;'&gt;'o'clock</code>&quot;; changes the
* string &quot;<code>&gt;</code>&quot;; to the string &quot;<code>o'clock</code>&quot;;
* </p>
*
* <p><b>Notes</b> </p>
*
* <p>While a RuleBasedTransliterator is being built, it checks that
* the rules are added in proper order. For example, if the rule
* &quot;a&gt;x&quot;; is followed by the rule &quot;ab&gt;y&quot;;,
* then the second rule will throw an exception. The reason is that
* the second rule can never be triggered, since the first rule
* always matches anything it matches. In other words, the first
* rule <em>masks</em> the second rule. </p>
*
* <p>Copyright (c) IBM Corporation 1999-2000. All rights reserved.</p>
*
* @author Alan Liu
* @internal
* @deprecated This API is ICU internal only.
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RuleBasedTransliterator.java

```

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

```

/*
*****
* Copyright (C) 2012-2014, Google, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ListFormatter.java

```

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

```

/*
*****
* Copyright (C) 2001-2012, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ArabicShaping.java

```

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

```

/*
*****
* Copyright (C) 2011-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* created on: 2011jan05
* created by: Markus W. Scherer
* ported from ICU4C stringtriebuilder.h/.cpp
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/StringTrieBuilder.java

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

```

/**
*****
* Copyright (C) 1996-2011, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterNameChoice.java

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

```

/*
*****
* Copyright (C) 2001-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiLine.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Bidi.java

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

```

/*
*****
* Copyright (c) 2001-2011, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Date      Name      Description
* 11/19/2001 aliu      Creation.
*****

```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnescapeTransliterator.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/EscapeTransliterator.java

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

/\*

\*\*\*\*\*

\*

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\* Corporation and others. All Rights Reserved.

\*

\*\*\*\*\*

\*

\* CollationLoader.java, ported from ucol\_res.cpp

\*

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationLoader.java

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

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormat.java

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

/\*

\*\*\*\*\*

\*

\* Copyright (C) 2004-2015, International Business Machines

\* Corporation and others. All Rights Reserved.

\*

\*\*\*\*\*

\* file name: UBiDiProps.java

\* encoding: US-ASCII

\* tab size: 8 (not used)

```
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UBiDiProps.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2009-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/FilteredNormalizer2.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (c) 2004-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Author: Alan Liu
* Created: April 20, 2004
* Since: ICU 3.0
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyFormat.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DecimalFormat.java
```

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DigitList.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFRuleSet.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/RuleBasedNumberFormat.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Utility.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/IslamicCalendar.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/DecimalFormatSymbols.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NFSubstitution.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SearchIterator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 1996-2009, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/PVecToTrieCompactHandler.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

```
/**
```

```
* { @icuenhanced java.text.DateFormatSymbols }. { @icu _usage_ }
*
* <p><code>DateFormatSymbols</code> is a public class for encapsulating
* localizable date-time formatting data, such as the names of the
* months, the names of the days of the week, and the time zone data.
* <code>DateFormat</code> and <code>SimpleDateFormat</code> both use
* <code>DateFormatSymbols</code> to encapsulate this information.
*
* <p>Typically you shouldn't use <code>DateFormatSymbols</code> directly.
* Rather, you are encouraged to create a date-time formatter with the
* <code>DateFormat</code> class's factory methods: <code>getTimeInstance</code>,
* <code>getDateInstance</code>, or <code>getTimeInstance</code>.
* These methods automatically create a <code>DateFormatSymbols</code> for
* the formatter so that you don't have to. After the
```

```

* formatter is created, you may modify its format pattern using the
* <code>setPattern</code> method. For more information about
* creating formatters using <code>DateFormat</code>'s factory methods,
* see { @link DateFormat }.
*
* <p>If you decide to create a date-time formatter with a specific
* format pattern for a specific locale, you can do so with:
* <blockquote>
* <pre>
* new SimpleDateFormat(aPattern, new DateFormatSymbols(aLocale)).
* </pre>
* </blockquote>
*
* <p><code>DateFormatSymbols</code> objects are clonable. When you obtain
* a <code>DateFormatSymbols</code> object, feel free to modify the
* date-time formatting data. For instance, you can replace the localized
* date-time format pattern characters with the ones that you feel easy
* to remember. Or you can change the representative cities
* to your favorite ones.
*
* <p>New <code>DateFormatSymbols</code> subclasses may be added to support
* <code>SimpleDateFormat</code> for date-time formatting for additional locales.
*
* @see      DateFormat
* @see      SimpleDateFormat
* @see      com.ibm.icu.util.SimpleTimeZone
* @author   Chen-Lieh Huang
* @stable ICU 2.0
*/

```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormatSymbols.java
```

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

```
/*
```

```
*****
```

```
*
```

```
* Copyright (C) 2004-2015, International Business Machines
```

```
* Corporation and others. All Rights Reserved.
```

```
*
```

```
*****
```

```
* file name: UCaseProps.java
```

```
* encoding: US-ASCII
```

```
* tab size: 8 (not used)
```

```
* indentation:4
```

```
*
```

```
* created on: 2005jan29
```

```
* created by: Markus W. Scherer
```

\*  
\* Low-level Unicode character/string case mapping code.  
\* Java port of ucase.h/c.  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCaseProps.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
\* Copyright (C) 2011-2012, International Business Machines Corporation and \*  
\* others. All Rights Reserved. \*  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Output.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
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\* and others. All Rights Reserved.  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/AlphabeticIndex.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
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\* others. All Rights Reserved. \*  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringMatcher.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeMatcher.java  
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/\*  
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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleData.java  
No license file was found, but licenses were detected in source scan.

/\* Copyright IBM Corporation, 1997, 2000, 2005, 2007. All Rights Reserved. \*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/MathContext.java  
No license file was found, but licenses were detected in source scan.

/\*

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Normalizer2Impl.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Normalizer2.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBISetBuilder.java  
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/\*

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\*\*\*\*\*

\* created on: 2011feb25

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternProps.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GlobalizationPreferences.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ClassLoaderUtil.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUResource.java  
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodBuilderFactory.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatterFactory.java  
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRanges.java

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```
/**
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedCollator.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UTF16.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacter.java

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

```
/**
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralRules.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/PluralFormat.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DurationFormat.java

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

```
/**
*****
* Copyright (C) 2011-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneGenericNames.java

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

```
/**
*****
* Copyright (C) 1996-2004, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/text/UForwardCharacterIterator.java

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\*/

/\*\*

\* `Replaceable` is an interface representing a  
\* string of characters that supports the replacement of a range of  
\* itself with a new string of characters. It is used by APIs that  
\* change a piece of text while retaining metadata. Metadata is data  
\* other than the Unicode characters returned by `char32At()`. One  
\* example of metadata is style attributes; another is an edit  
\* history, marking each character with an author and revision number.

\*

\* 

An implicit aspect of the `Replaceable` API is that  
\* during a replace operation, new characters take on the metadata of  
\* the old characters. For example, if the string "the **bold**  
\* font" has range (4, 8) replaced with "strong", then it becomes "the  
\* **strong** font".

\*

\* 

`Replaceable` specifies ranges using a start  
\* offset and a limit offset. The range of characters thus specified  
\* includes the characters at offset start..limit-1. That is, the  
\* start offset is inclusive, and the limit offset is exclusive.

\*

\* 

`Replaceable` also includes API to access characters  
\* in the string: `length()`, `charAt()`,  
\* `char32At()`, and `extractBetween()`.

\*

\* 

For a subclass to support metadata, typical behavior of  
\* `replace()` is the following:

\*

\* - Set the metadata of the new text to the metadata of the first  
\* character replaced

\* - If no characters are replaced, use the metadata of the  
\* previous character

\* - If there is no previous character (i.e. start == 0), use the  
\* following character

\* - If there is no following character (i.e. the replaceable was  
\* empty), use default metadata

\* - If the code point U+FFFF is seen, it should be interpreted as  
\* a special marker having no metadata

\* -

```
* </ul>
* If this is not the behavior, the subclass should document any differences.
*
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
* @stable ICU 2.0
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Replaceable.java  
No license file was found, but licenses were detected in source scan.

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*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UTS46.java  
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```
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*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/FilteredBreakIteratorBuilder.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/OutputInt.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ScientificNumberFormatter.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Pair.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/KeyTypeData.java  
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*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleTimeZone.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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*****
* CollationSettings.java, ported from collationsettings.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationSettings.java  
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```
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*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PatternTokenizer.java  
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```
/*
*****
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*****
* CollationDataReader.java, ported from collationdatareader.h/.cpp
*
* C++ version created on: 2013feb07
* created by: Markus W. Scherer
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationDataReader.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
```

```
* Copyright (c) 2003-2014 International Business Machines
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*****
* Author: Alan Liu
* Created: September 4 2003
* Since: ICU 2.8
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ZoneMeta.java  
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```
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* TailoredSet.java, ported from collationsets.h/.cpp
*
* C++ version created on: 2013feb09
* created by: Markus W. Scherer
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/TailoredSet.java  
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Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/STZInfo.java  
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```
/*
*****
* Copyright (c) 2002-2015, International Business Machines
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*****
* Author: Alan Liu
* Created: November 5 2002
* Since: ICU 2.4
* 2010nov19 Markus Scherer Rewrite for formatVersion 2.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UPropertyAliases.java

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/\*

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/UnicodeSetStringSpan.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/BMPSet.java

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\*/

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\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Freezable.java

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\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog\_sbcs.java

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\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/OlsonTimeZone.java  
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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog\_mbcs.java  
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\* CollationRootElements.java, ported from collationrootelements.h/.cpp

\*

\* C++ version created on: 2013mar01

\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/coll/CollationRootElements.java  
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\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BuddhistCalendar.java  
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<p>ICU uses the public domain data and code derived from <a href="http://www.iana.org/time-zones">
that is in the public domain, and is intended to remain in the public
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/license.html
```

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

```
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```

```
*****
```

```
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```

```
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```

```
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Assert.java
```

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```
/*
```

```
*****
```

```
* Copyright (C) 2012-2015, International Business Machines
```

```
* Corporation and others. All Rights Reserved.
```

```
*****
```

```
* CollationDataBuilder.java, ported from collationdatabuilder.h/cpp
```

```
*
```

```
* C++ version created on: 2012apr01
```

```
* created by: Markus W. Scherer
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationDataBuilder.java
```

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

```
/*
```

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DangiCalendar.java  
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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollatorServiceShim.java  
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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/InternalLocaleBuilder.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/BaseLocale.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleObjectCache.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/AsciiUtil.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/Extension.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/LocaleExtensions.java  
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\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetMatch.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecognizer.java

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUConfig.java

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\*

\* Unicode Spoof Detection

\*/

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/DontCareFieldPosition.java

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/URResourceBundleIterator.java  
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*****
* Date Name Description
* 01/14/2002 aliu Creation.
*****
*/
```

Found in path(s):

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```
/*
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*****
*/
// Hashing implementation functions. FNV hash. Respected public domain algorithm.
```

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* Author: Mark Davis
*****
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jar/com/ibm/icu/text/CharsetRecog\_UTF8.java

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jar/com/ibm/icu/impl/ICUCurrencyDisplayInfoProvider.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2\_32.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/ICUResourceTableAccess.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie2\_16.java

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Found in path(s):

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Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/text/UnicodeDecompressor.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeCompressor.java

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Found in path(s):

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/\*

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\* and others. All Rights Reserved. \*  
\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/CharSequences.java  
No license file was found, but licenses were detected in source scan.

/\*

\*\*\*\*\*  
\* Copyright (c) 2007-2009 International Business Machines Corporation and \*  
\* others. All rights reserved. \*  
\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCache.java  
No license file was found, but licenses were detected in source scan.

/\*

\*\*\*\*\*  
\* Copyright (C) 2007-2010, International Business Machines Corporation and \*  
\* others. All Rights Reserved. \*  
\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/duration/BasicPeriodFormatter.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/duration/impl/XMLRecordReader.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/duration/BasicPeriodFormatterFactory.java  
No license file was found, but licenses were detected in source scan.

```
/*  
* Copyright (C) 1996-2011, International Business Machines Corporation and  
* others. All Rights Reserved.  
*  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/text/TitlecaseTransliterator.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2007-2011, International Business Machines Corporation and *  
* others. All Rights Reserved. *  
*****  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/duration/BasicPeriodBuilderFactory.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (c) 2002-2014, Google, International Business Machines  
* Corporation and others. All Rights Reserved.  
*****  
* Author: Mark Davis  
*****  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Row.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2005-2011, International Business Machines Corporation and *  
* others. All Rights Reserved. *  
*****
```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CECalendar.java  
No license file was found, but licenses were detected in source scan.

/\*

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\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/BasicDurationFormatter.java  
No license file was found, but licenses were detected in source scan.

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BurmeseBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ThaiBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SimplePatternFormatter.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LanguageBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BytesDictionaryMatcher.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LaoBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/KhmerBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnhandledBreakEngine.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsDictionaryMatcher.java  
No license file was found, but licenses were detected in source scan.

/\*

\*\*\*\*\*

\* Copyright (C) 1996-2010, International Business Machines Corporation and \*

```

* others. All Rights Reserved.
*****
*/
/**
* A set of rules for a <code>RuleBasedTransliterato</code>. This set encodes
* the transliteration in one direction from one set of characters or short
* strings to another. A <code>RuleBasedTransliterato</code> consists of up to
* two such sets, one for the forward direction, and one for the reverse.
*
* <p>A <code>TransliterationRuleSet</code> has one important operation, that of
* finding a matching rule at a given point in the text. This is accomplished
* by the <code>findMatch()</code> method.
*
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/TransliterationRuleSet.java

```

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

```

/*
*****
* Copyright (c) 2002-2007, International Business Machines Corporation
* and others. All Rights Reserved.
*****
* Date Name Description
* 01/14/2002 aliu Creation.
*****
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringReplacer.java

```

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

```

/*
*****
* Copyright (C) 2012-2013, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CompactDecimalDataCache.java

```

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

```
/*
*****
*
* Copyright (C) 1999-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UScriptRun.java

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

```
/*
*****
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationFastLatin.java, ported from collationfastlatin.h/cpp
*
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationFastLatin.java

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

```
/*
*****
* Copyright (C) 1996-2014, Google, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CompactDecimalFormat.java

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

```
/*
*****
* Copyright (C) 2009-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/text/RbnfScannerProviderImpl.java

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

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacterNameIterator.java

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

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\* others. All Rights Reserved.

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/ResourceBasedPeriodFormatterDataService.java

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

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\* others. All Rights Reserved.

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RelativeDateTimeFormatter.java

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

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryMatcher.java

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

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\*\*\*\*\*

\*/

/\*\*

\* DateIntervalInfo is a public class for encapsulating localizable

\* date time interval patterns. It is used by DateIntervalFormat.

\*

\* <P>

\* For most users, ordinary use of DateIntervalFormat does not need to create

\* DateIntervalInfo object directly.

\* DateIntervalFormat will take care of it when creating a date interval

\* formatter when user pass in skeleton and locale.

\*

\* <P>

\* For power users, who want to create their own date interval patterns,

\* or want to re-set date interval patterns, they could do so by

\* directly creating DateIntervalInfo and manipulating it.

\*

\* <P>

\* Logically, the interval patterns are mappings

\* from (skeleton, the\_largest\_different\_calendar\_field)

\* to (date\_interval\_pattern).

\*

\* <P>

\* A skeleton

\* <ol>

\* <li>

\* only keeps the field pattern letter and ignores all other parts

\* in a pattern, such as space, punctuations, and string literals.

\* <li>

\* hides the order of fields.

\* <li>

\* might hide a field's pattern letter length.

\*

\* For those non-digit calendar fields, the pattern letter length is

\* important, such as MMM, MMMM, and MMMMM; EEE and EEEE,

\* and the field's pattern letter length is honored.

\*

\* For the digit calendar fields, such as M or MM, d or dd, yy or yyyy,

- \* the field pattern length is ignored and the best match, which is defined
- \* in date time patterns, will be returned without honor the field pattern
- \* letter length in skeleton.
- \* </ol>
- \* <P>
- \* The calendar fields we support for interval formatting are:
- \* year, month, date, day-of-week, am-pm, hour, hour-of-day, minute, and
- \* second (though we do not currently have specific intervalFormat data for
- \* skeletons with seconds).
- \* Those calendar fields can be defined in the following order:
- \* year > month > date > am-pm > hour > minute > second
- \* <P>
- \* The largest different calendar fields between 2 calendars is the
- \* first different calendar field in above order.
- \* <P>
- \* For example: the largest different calendar fields between "Jan 10, 2007"
- \* and "Feb 20, 2008" is year.
- \* <P>
- \* There is a set of pre-defined static skeleton strings.
- \* There are pre-defined interval patterns for those pre-defined skeletons
- \* in locales' resource files.
- \* For example, for a skeleton YEAR\_ABBR\_MONTH\_DAY, which is "yMMMMd",
- \* in en\_US, if the largest different calendar field between date1 and date2
- \* is "year", the date interval pattern is "MMM d, yyyy - MMM d, yyyy",
- \* such as "Jan 10, 2007 - Jan 10, 2008".
- \* If the largest different calendar field between date1 and date2 is "month",
- \* the date interval pattern is "MMM d - MMM d, yyyy",
- \* such as "Jan 10 - Feb 10, 2007".
- \* If the largest different calendar field between date1 and date2 is "day",
- \* the date interval pattern is ""MMM d-d, yyyy", such as "Jan 10-20, 2007".
- \* <P>
- \* For date skeleton, the interval patterns when year, or month, or date is
- \* different are defined in resource files.
- \* For time skeleton, the interval patterns when am/pm, or hour, or minute is
- \* different are defined in resource files.
- \* <P>
- \* There are 2 dates in interval pattern. For most locales, the first date
- \* in an interval pattern is the earlier date. There might be a locale in which
- \* the first date in an interval pattern is the later date.
- \* We use fallback format for the default order for the locale.
- \* For example, if the fallback format is "{0} - {1}", it means
- \* the first date in the interval pattern for this locale is earlier date.
- \* If the fallback format is "{1} - {0}", it means the first date is the
- \* later date.

```

* For a particular interval pattern, the default order can be overridden
* by prefixing "latestFirst:" or "earliestFirst:" to the interval pattern.
* For example, if the fallback format is "{0}-{1}",
* but for skeleton "yMMMd", the interval pattern when day is different is
* "latestFirst:d-d MMM yy", it means by default, the first date in interval
* pattern is the earlier date. But for skeleton "yMMMd", when day is different,
* the first date in "d-d MMM yy" is the later date.
*
* <P>
* The recommended way to create a DateIntervalFormat object is to pass in
* the locale.
* By using a Locale parameter, the DateIntervalFormat object is
* initialized with the pre-defined interval patterns for a given or
* default locale.
* <P>
* Users can also create DateIntervalFormat object
* by supplying their own interval patterns.
* It provides flexibility for power usage.
*
* <P>
* After a DateIntervalInfo object is created, clients may modify
* the interval patterns using setIntervalPattern function as so desired.
* Currently, users can only set interval patterns when the following
* calendar fields are different: ERA, YEAR, MONTH, DATE, DAY_OF_MONTH,
* DAY_OF_WEEK, AM_PM, HOUR, HOUR_OF_DAY, MINUTE and SECOND.
* Interval patterns when other calendar fields are different is not supported.
* <P>
* DateIntervalInfo objects are cloneable.
* When clients obtain a DateIntervalInfo object,
* they can feel free to modify it as necessary.
* <P>
* DateIntervalInfo are not expected to be subclassed.
* Data for a calendar is loaded out of resource bundles.
* Through ICU 4.4, date interval patterns are only supported in the Gregoria
* calendar; non-Gregorian calendars are supported from ICU 4.4.1.
*
* @stable ICU 4.0
*/

```

Found in path(s):

```

* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateIntervalInfo.java

```

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

```

/**

```

```

*****

```

```

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* others. All Rights Reserved.

```

```

*****

```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacterEnums.java  
No license file was found, but licenses were detected in source scan.

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneFormat.java  
No license file was found, but licenses were detected in source scan.

/\*

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\* others. All Rights Reserved. \*  
\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_fr.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_it.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_da.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_es.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_el.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_en.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SymbolTable.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_iw.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_de.java  
No license file was found, but licenses were detected in source scan.

/\*\*

\*\*\*\*\*  
\* Copyright (C) 1996-2004, International Business Machines Corporation and \*  
\*\*\*\*\*

```
* others. All Rights Reserved.
*
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterUtility.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* *****
* Copyright (C) 2005-2015, International Business Machines Corporation and
* others. All Rights Reserved.
* *****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/ICUResourceBundle.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* *****
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
* *****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Collator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* *****
* Copyright (C) 2008-2014, International Business Machines Corporation and *
* others. All Rights Reserved.
* *****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/PluralRulesLoader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/JavaTimeZone.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* *****
* Copyright (C) 2005-2014, International Business Machines Corporation and *
* others. All Rights Reserved.
* *****
```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CopticCalendar.java  
No license file was found, but licenses were detected in source scan.

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SCSU.java  
No license file was found, but licenses were detected in source scan.

/\*

\*\*\*\*\*

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\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* Author: M. Davis  
\* Created: December 2002 (moved from UnicodeSet)  
\* Since: ICU 2.4

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SortedSetRelation.java  
No license file was found, but licenses were detected in source scan.

/\*

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\*\*\*\*\*

\* CollationKeys.java, ported from collationkeys.h/.cpp

\*

\* C++ version created on: 2012sep02  
\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationKeys.java  
No license file was found, but licenses were detected in source scan.

/\*

```
*****
* Copyright (C) 2011-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* created on: 2011jan06
* created by: Markus W. Scherer
* ported from ICU4C ucharstrie.h/.cpp
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrie.java  
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved.
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NameUnicodeTransliterator.java  
No license file was found, but licenses were detected in source scan.

```
/**
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UCharacterDirection.java  
No license file was found, but licenses were detected in source scan.

```
/**
*****
* Copyright (C) 1996-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharArrayIterator.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
```

```
* Copyright (C) 2009-2013, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDs.java  
No license file was found, but licenses were detected in source scan.

```
/*
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*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Norm2AllModes.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UFormat.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringPrep.java  
No license file was found, but licenses were detected in source scan.

```
/* Copyright IBM Corporation, 1996-2011. All Rights Reserved. */
// copyright=" Copyright (c) IBM Corporation 1996, 2000. All rights reserved. ";
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/math/BigDecimal.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2003-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Punycode.java

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

```

/*
*****
* Copyright (c) 2001-2011, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorParser.java

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

```

/*
*****
* Copyright (C) 2003-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ULocale.java

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

```

/*
*****
* Copyright (C) 2011-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* created on: 2011jan07
* created by: Markus W. Scherer
* ported from ICU4C ucharstriebuilder/.cpp
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CharsTrieBuilder.java

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

```

/*
*****
* Copyright (C) 2005-2014, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/EthiopicCalendar.java

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

```
/*
*****
* Copyright (C) 2011, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneNamesFactoryImpl.java

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

```
/*
*****
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterProperty.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UCharacterIterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSet.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBBIDataWrapper.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SimpleDateFormat.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUBinary.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringSearch.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VersionInfo.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterNameReader.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ReplaceableUCharacterIterator.java

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

```
/*
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*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CjkBreakEngine.java

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

```
/**
```

```
*****
* Copyright (C) 1996-2014, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/StringTokenizer.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2004-2015, Google Inc, International Business Machines *
* Corporation and others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/MeasureUnit.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 1996-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrie.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Trie.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CharTrie.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2012-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationRoot.java, ported from collationroot.h/.cpp
*
* C++ version created on: 2012dec17
* created by: Markus W. Scherer
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationRoot.java
```

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

```
/*  
* Copyright (C) 2000-2014, International Business Machines Corporation and  
* others. All Rights Reserved.  
*  
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ChineseDateFormat.java

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

```
/*  
* Copyright (C) 1996-2009, Google, International Business Machines Corporation and *  
* others. All Rights Reserved. *  
*  
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringTransform.java

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

```
/*  
* Copyright (C) 2007, International Business Machines Corporation and *  
* others. All Rights Reserved. *  
*  
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodBuilder.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatterFactory.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DurationFormatter.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatter.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnitConstants.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordWriter.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/DateFormatter.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/RecordReader.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/Period.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/TimeUnit.java

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

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\*\*\*\*\*

\* Date Name Description

\* 06/08/01 aliu Creation.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/text/NormalizationTransliterator.java

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

/\*\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/lang/UCharacterCategory.java

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

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CollationKey.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/BOCSU.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UProperty.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/text/CollationElementIterator.java

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\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Holiday.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/LowercaseTransliterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarAstronomer.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UppercaseTransliterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CalendarCache.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/IndianCalendar.java  
No license file was found, but licenses were detected in source scan.

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocalePriorityList.java  
No license file was found, but licenses were detected in source scan.

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\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SimpleCache.java  
No license file was found, but licenses were detected in source scan.

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\* others. All Rights Reserved.  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ICUException.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/SimpleFilteredSentenceBreakIterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/util/ICUUncheckedIOException.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/util/ICUCloneNotSupportedException.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/TZDBTimeZoneNames.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetSpanner.java  
No license file was found, but licenses were detected in source scan.

```
/*  
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* and others. All Rights Reserved.  
*****  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/IdentifierInfo.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
* Copyright (C) 2013-2015, International Business Machines  
* Corporation and others. All Rights Reserved.  
*****  
* CollationRuleParser.java, ported from collationruleparser.h/.cpp  
*  
* C++ version created on: 2013apr10  
* created by: Markus W. Scherer  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/coll/CollationRuleParser.java  
No license file was found, but licenses were detected in source scan.

```
/*  
*****  
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* others. All Rights Reserved.  
*****  
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewCalendar.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakTransliterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterName.java

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

```
/*
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/StringRange.java
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* and others. All Rights Reserved.
*****
*/
```

Found in path(s):
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GenderInfo.java
No license file was found, but licenses were detected in source scan.

```
/*
*****
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*****
*/
```

Found in path(s):
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SourceTargetUtility.java
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (c) 2003-2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Author: Alan Liu
* Created: October 2 2003
* Since: ICU 2.8
*****
*/
```

Found in path(s):
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneAdapter.java

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

```
/*
*****
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* Corporation and others. All Rights Reserved.
*****
* created on: 2010aug21
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessagePattern.java

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

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/JapaneseCalendar.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactByteArray.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CompactCharArray.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/PersianCalendar.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/StringCharacterIterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/EasterHoliday.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeSetIterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RemoveTransliterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ComposedCharIter.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeFilter.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CanonicalIterator.java

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

```
/*
*****
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*****
* created on: 2011jan05
* created by: Markus W. Scherer
* ported from ICU4C bytestriebuilder.h/cpp
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BytesTrieBuilder.java

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

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUNotifier.java

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

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\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransformTransliterator.java

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

/\*\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleIDParser.java

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

/\*\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/SoftCache.java

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

```
/*
*****
* Copyright (C) 2003-2011, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/NumberFormatServiceShim.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
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*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DateTimeRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneTransition.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/AnnualTimeZoneRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeZoneRule.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/util/TimeArrayTimeZoneRule.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2010-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationIterator.java, ported from collationiterator.h/cpp
*
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/coll/CollationIterator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (c) 2004-2010, International Business Machines
```

```
* Corporation and others. All Rights Reserved.
*****
* Author: Alan Liu
* Created: April 12, 2004
* Since: ICU 3.0
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/CurrencyAmount.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2009-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/MultiComparator.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (c) 2002, International Business Machines Corporation
* and others. All Rights Reserved.
*****
* Date Name Description
* 01/14/2002 aliu Creation.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/UnicodeReplacer.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
*
* Copyright (C) 1999-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*
*****
* CollationWeights.java, ported from collationweights.h/cpp
*
* C++ version created on: 2001mar08 as ucol_wgt.h
* created by: Markus W. Scherer
```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationWeights.java

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

/\*

\*\*\*\*\*

\* Copyright (c) 2003-2011, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* Author: Alan Liu

\* Created: September 23 2003

\* Since: ICU 2.8

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/RuleCharacterIterator.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 1996-2013, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog\_Unicode.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2005-2015 International Business Machines Corporation and \*

\* others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RuleBasedBreakIterator.java

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

```
/**
*****
* Copyright (C) 2001-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/data/ResourceReader.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Currency.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 1996-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ValueIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TrieBuilder.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeValueIterator.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IntTrieBuilder.java
No license file was found, but licenses were detected in source scan.
```

```
/**
*****
* Copyright (C) 1996-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/ByteArrayWrapper.java
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RawCollationKey.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright (C) 1996-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/GregorianCalendar.java
No license file was found, but licenses were detected in source scan.
```

```
/*
*****
* Copyright (C) 2007-2009, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/DataRecord.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/PeriodFormatterService.java
- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/PeriodFormatterDataService.java

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

```
/*
*****
* Copyright (C) 1996-2006, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/StringUCharacterIterator.java

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

```
/*
*****
* Copyright (C) 2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CacheBase.java

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

```
/*
*****
* Copyright (C) 2009-2012, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

- \* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NumberingSystem.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/IllformedLocaleException.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/CurrencyData.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (c) 2002-2014, International Business Machines Corporation
* and others. All Rights Reserved.
*****
* Date      Name      Description
* 06/06/2002  aliu      Creation.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/AnyTransliterator.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2007-2013, International Business Machines Corporation and *
* others. All Rights Reserved.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/YMDDateFormatter.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (c) 2002-2011, International Business Machines Corporation
* and others. All Rights Reserved.
*****
* Date      Name      Description
* 01/14/2002  aliu      Creation.
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorIDParser.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
```

\* Copyright (C) 2009-2014, International Business Machines Corporation and \*  
\* others. All Rights Reserved. \*  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/locale/UnicodeLocaleExtension.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScanner.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CurrencyPluralInfo.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RbnfLenientScannerProvider.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUCurrencyMetaInfo.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
\* Copyright (C) 2004-2014, International Business Machines Corporation and \*  
\* others. All Rights Reserved. \*  
\*\*\*\*\*  
\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UniversalTimeScale.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
\* Copyright (C) 1996-2007, International Business Machines Corporation and \*  
\* others. All Rights Reserved. \*  
\*\*\*\*\*  
\*  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/LocaleUtility.java  
No license file was found, but licenses were detected in source scan.

/\*  
\*\*\*\*\*  
\* Copyright (C) 2001-2011, International Business Machines  
\* Corporation and others. All Rights Reserved.  
\*\*\*\*\*  
\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiRun.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2013-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* CollationFastLatinBuilder.java, ported from collationfastlatinbuilder.h/cpp
*
* C++ version created on: 2013aug09
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/coll/CollationFastLatinBuilder.java  
No license file was found, but licenses were detected in source scan.

```
/**
*****
* Copyright (C) 2001-2015 International Business Machines Corporation and
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/lang/UScript.java  
No license file was found, but licenses were detected in source scan.

```
/**
*****
* Copyright (C) 1996-2009, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
// "Copyright (C) 2010, International Business Machines Corporation and others. All Rights Reserved.";
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/Differ.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2004-2006, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
```

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceTypeMismatchException.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2007-2014, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/DateNumberFormat.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2004-2009, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBNFChinesePostProcessor.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2009-2015, Google, Inc.; International Business Machines Corporation \*

\* and others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/LocaleMatcher.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 2007-2008, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/InitialTimeZoneRule.java

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

/\*

\*\*\*\*\*

\* Copyright (C) 1996-2015, International Business Machines Corporation and \*

\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

/\*\*

\* `Transliterator` is an abstract class that transliterates text from one format to another. The most common

\* kind of transliterator is a script, or alphabet, transliterator. For example, a Russian to Latin transliterator

\* changes Russian text written in Cyrillic characters to phonetically equivalent Latin characters. It does not

\* *translate* Russian to English! Transliteration, unlike translation, operates on characters, without reference

\* to the meanings of words and sentences.

\*

\* `<p>`

\* Although script conversion is its most common use, a transliterator can actually perform a more general class of

\* tasks. In fact, `Transliterator` defines a very general API which specifies only that a segment of the

\* input text is replaced by new text. The particulars of this conversion are determined entirely by subclasses of

\* `Transliterator`.

\*

\* `<p>`

\* **Transliterators are stateless**

\*

\* `<p>`

\* `Transliterator` objects are *stateless*; they retain no information between calls to

\* `transliterate()`. As a result, threads may share transliterators without synchronizing them. This might

\* seem to limit the complexity of the transliteration operation. In practice, subclasses perform complex

\* transliterations by delaying the replacement of text until it is known that no other replacements are possible. In

\* other words, although the `Transliterator` objects are stateless, the source text itself embodies all the

\* needed information, and delayed operation allows arbitrary complexity.

\*

\* `<p>`

\* **Batch transliteration**

\*

\* `<p>`

\* The simplest way to perform transliteration is all at once, on a string of existing text. This is referred to as

\* *batch* transliteration. For example, given a string `input` and a transliterator

`t`,

\* the call

\*

\* `String result = t.transliterate(input);`

\* `</code>`

\*  
 \* will transliterate it and return the result. Other methods allow the client to specify a substring to be  
 \* transliterated and to use { @link Replaceable } objects instead of strings, in order to preserve out-of-band  
 \* information (such as text styles).  
 \*  
 \* <p>  
 \* <b>Keyboard transliteration</b>  
 \*  
 \* <p>  
 \* Somewhat more involved is <em>keyboard</em>, or incremental transliteration. This is the transliteration of text  
 that  
 \* is arriving from some source (typically the user's keyboard) one character at a time, or in some other piecemeal  
 \* fashion.  
 \*  
 \* <p>  
 \* In keyboard transliteration, a <code>Replaceable</code> buffer stores the text. As text is inserted, as much as  
 \* possible is transliterated on the fly. This means a GUI that displays the contents of the buffer may show text being  
 \* modified as each new character arrives.  
 \*  
 \* <p>  
 \* Consider the simple <code>RuleBasedTransliterater</code>:  
 \*  
 \* <blockquote><code>  
 \* th&gt;{theta}<br>  
 \* t&gt;{tau}  
 \* </code></blockquote>  
 \*  
 \* When the user types 't', nothing will happen, since the transliterator is waiting to see if the next character is  
 \* 'h'. To remedy this, we introduce the notion of a cursor, marked by a '|' in the output string:  
 \*  
 \* <blockquote><code>  
 \* t&gt;|{tau}<br>  
 \* {tau}h&gt;{theta}  
 \* </code></blockquote>  
 \*  
 \* Now when the user types 't', tau appears, and if the next character is 'h', the tau changes to a theta. This is  
 \* accomplished by maintaining a cursor position (independent of the insertion point, and invisible in the GUI) across  
 \* calls to <code>transliterate()</code>. Typically, the cursor will be coincident with the insertion point, but in a  
 \* case like the one above, it will precede the insertion point.  
 \*  
 \* <p>  
 \* Keyboard transliteration methods maintain a set of three indices that are updated with each call to  
 \* <code>transliterate()</code>, including the cursor, start, and limit. These indices are changed by the method, and  
 \* they are passed in and out via a Position object. The <code>start</code> index marks the beginning of the  
 substring  
 \* that the transliterator will look at. It is advanced as text becomes committed (but it is not the committed index;  
 \* that's the <code>cursor</code>). The <code>cursor</code> index, described above, marks the point at which the  
 \* transliterator last stopped, either because it reached the end, or because it required more characters to

\* disambiguate between possible inputs. The `cursor` can also be explicitly set by rules in a `RuleBasedTransliterator`. Any characters before the `cursor` index are frozen; future keyboard

\* transliteration calls within this input sequence will not change them. New text is inserted at the `limit` index, which marks the end of the substring that the transliterator looks at.

\* `<p>`

\* Because keyboard transliteration assumes that more characters are to arrive, it is conservative in its operation. It only transliterates when it can do so unambiguously. Otherwise it waits for more characters to arrive. When the client code knows that no more characters are forthcoming, perhaps because the user has performed some input termination operation, then it should call `finishTransliteration()` to complete any pending transliterations.

\* `<p>`

\* `<b>Inverses</b>`

\* `<p>`

\* Pairs of transliterators may be inverses of one another. For example, if transliterator `<b>A</b>` transliterates characters by incrementing their Unicode value (so "abc" -> "def"), and transliterator `<b>B</b>` decrements character values, then `<b>A</b>` is an inverse of `<b>B</b>` and vice versa. If we compose `<b>A</b>` with `<b>B</b>` in a compound transliterator, the result is the identity transliterator, that is, a transliterator that does not change its input text.

\* The `Transliterator` method `getInverse()` returns a transliterator's inverse, if one exists, or `null` otherwise. However, the result of `getInverse()` usually will *not* be a true mathematical inverse. This is because true inverse transliterators are difficult to formulate. For example, consider two transliterators: `<b>AB</b>`, which transliterates the character 'A' to 'B', and `<b>BA</b>`, which transliterates 'B' to 'A'. It might seem that these are exact inverses, since

\* `<blockquote>"A" x <b>AB</b> -> "B"`  
`</blockquote>`  
`<blockquote>"B" x <b>BA</b> -> "A"`  
`</blockquote>`

\* where 'x' represents transliteration. However,

\* `<blockquote>"ABCD" x <b>AB</b> -> "BBCD"`  
`</blockquote>`  
`<blockquote>"BBCD" x <b>BA</b> -> "AACD"`  
`</blockquote>`

\* so `<b>AB</b>` composed with `<b>BA</b>` is not the identity. Nonetheless, `<b>BA</b>` may be usefully considered to be `<b>AB</b>`'s inverse, and it is on this basis that `<b>AB</b>.getInverse()` could legitimately return `<b>BA</b>`.

\* `<p>`

## \* **<b>Filtering</b>**

\* **<p>**Each transliterator has a filter, which restricts changes to those characters selected by the filter. The filter affects just the characters that are changed -- the characters outside of the filter are still part of the context for the filter. For example, in the following even though 'x' is filtered out, and doesn't convert to y, it does affect the conversion of 'a'.

\*

\* **<pre>**

\* String rules = "x > y; x{a} > b;";

\* Transliterator tempTrans = Transliterator.createFromRules("temp", rules, Transliterator.FORWARD);

\* tempTrans.setFilter(new UnicodeSet("a"));

\* String tempResult = tempTrans.transform("xa");

\* // results in "xb";

\* **</pre>**

\* **<p>**

\* **<b>IDs and display names</b>**

\*

\* **<p>**

\* A transliterator is designated by a short identifier string or **<em>ID</em>**. IDs follow the format

\* **<em>source-destination</em>**, where **<em>source</em>** describes the entity being replaced, and

**<em>destination</em>**

\* describes the entity replacing **<em>source</em>**. The entities may be the names of scripts, particular sequences of

\* characters, or whatever else it is that the transliterator converts to or from. For example, a transliterator from

\* Russian to Latin might be named "Russian-Latin". A transliterator from keyboard escape sequences to Latin-1

\* characters might be named "KeyboardEscape-Latin1". By convention, system entity names are in English, with the

the

\* initial letters of words capitalized; user entity names may follow any format so long as they do not contain dashes.

\*

\* **<p>**

\* In addition to programmatic IDs, transliterator objects have display names for presentation in user interfaces,

\* returned by { @link #getDisplayNames }.

\*

\* **<p>**

\* **<b>Factory methods and registration</b>**

\*

\* **<p>**

\* In general, client code should use the factory method **<code>getInstance</code>** to obtain an instance of a

\* transliterator given its ID. Valid IDs may be enumerated using **<code>getAvailableIDs</code>**. Since

transliterators

\* are stateless, multiple calls to **<code>getInstance</code>** with the same ID will return the same object.

\*

\* **<p>**

\* In addition to the system transliterators registered at startup, user transliterators may be registered by calling

\* **<code>registerInstance</code>** at run time. To register a transliterator subclass without instantiating it (until it

\* is needed), users may call **<code>registerClass</code>**.

\*

\* **<p>**

\* **<b>Composed transliterators</b>**

\*

```

* <p>
* In addition to built-in system transliterators like "Latin-Greek", there are also built-in <em>composed</em>
* transliterators. These are implemented by composing two or more component transliterators. For example, if we
have
* scripts "A", "B", "C", and "D", and we want to transliterate between all pairs of them, then we need to write 12
* transliterators: "A-B", "A-C", "A-D", "B-A",..., "D-A", "D-B", "D-C". If it is possible to convert all scripts to an
* intermediate script "M", then instead of writing 12 rule sets, we only need to write 8: "A~M", "B~M", "C~M",
"D~M",
* "M~A", "M~B", "M~C", "M~D". (This might not seem like a big win, but it's really 2<em>n</em> vs.
<em>n</em>
* <sup>2</sup> - <em>n</em>, so as <em>n</em> gets larger the gain becomes significant. With 9 scripts, it's 18
vs. 72
* rule sets, a big difference.) Note the use of "~" rather than "-" for the script separator here; this indicates that
* the given transliterator is intended to be composed with others, rather than be used as is.
*
* <p>
* Composed transliterators can be instantiated as usual. For example, the system transliterator "Devanagari-
Gujarati"
* is a composed transliterator built internally as "Devanagari~InterIndic;InterIndic~Gujarati". When this
* transliterator is instantiated, it appears externally to be a standard transliterator (e.g., getID() returns
* "Devanagari-Gujarati").
*
* <p>
* <b>Subclassing</b>
*
* <p>
* Subclasses must implement the abstract method <code>handleTransliterate()</code>.
* <p>
* Subclasses should override the <code>transliterate()</code> method taking a <code>Replaceable</code> and the
* <code>transliterate()</code> method taking a <code>String</code> and <code>StringBuffer</code> if the
performance of
* these methods can be improved over the performance obtained by the default implementations in this class.
*
* <p>
* Copyright &copy; IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
* @stable ICU 2.0
*/

```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/Transliterator.java
```

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

```
/*
```

```
*****
```

```
* Copyright (c) 2004-2014, International Business Machines
```

```
* Corporation and others. All Rights Reserved.
```

```
*****
* Author: Alan Liu
* Created: April 6, 2004
* Since: ICU 3.0
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MessageFormat.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*****
* Copyright (C) 2012-2015, International Business Machines Corporation and
* others. All Rights Reserved.
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DictionaryData.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*****
* Copyright (C) 2002-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UtilityExtensions.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
*****
* Copyright (C) 2010-2015, International Business Machines
* Corporation and others. All Rights Reserved.
*****
```

```
* Collation.java, ported from collation.h/.cpp
*
```

```
* C++ version created on: 2010oct27
* created by: Markus W. Scherer
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/Collation.java
No license file was found, but licenses were detected in source scan.
```

```

/*
*****
* Copyright (C) 1996-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
/**
* A transliteration rule used by
* <code>RuleBasedTransliterator</code>.
* <code>TransliterationRule</code> is an immutable object.
*
* <p>A rule consists of an input pattern and an output string. When
* the input pattern is matched, the output string is emitted. The
* input pattern consists of zero or more characters which are matched
* exactly (the key) and optional context. Context must match if it
* is specified. Context may be specified before the key, after the
* key, or both. The key, preceding context, and following context
* may contain variables. Variables represent a set of Unicode
* characters, such as the letters <i>a</i> through <i>z</i>.
* Variables are detected by looking up each character in a supplied
* variable list to see if it has been so defined.
*
* <p>A rule may contain segments in its input string and segment
* references in its output string. A segment is a substring of the
* input pattern, indicated by an offset and limit. The segment may
* be in the preceding or following context. It may not span a
* context boundary. A segment reference is a special character in
* the output string that causes a segment of the input string (not
* the input pattern) to be copied to the output string. The range of
* special characters that represent segment references is defined by
* RuleBasedTransliterator.Data.
*
* <p>Example: The rule "[a-z] . ([0-9]) > $2 . $1" will change the input
* string "abc.123" to "ab1.c23".
*
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
*/

```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliterationRule.java

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

```

/*
*****
* Copyright (C) 2000-2009, International Business Machines Corporation and *
* others. All Rights Reserved. *

```

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BidiClassifier.java

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

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeZoneNames.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/TimeZoneNamesImpl.java

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

/\*

\*\*\*\*\*

\* Copyright (c) 2004-2015, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* Author: Alan Liu

\* Created: April 20, 2004

\* Since: ICU 3.0

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/MeasureFormat.java

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

/\*\*

\*\*\*\*\*

\* Copyright (C) 2006-2015, International Business Machines Corporation and

\* others. All Rights Reserved.

\*\*\*\*\*

\*

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/InvalidFormatException.java

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

```
/*
*****
* Copyright (C) 2011-2015, International Business Machines Corporation *
* All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Region.java

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

```
/*
*****
* Copyright (C) 1996-2010, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleDateRule.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_da\_DK.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_en\_CA.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_en\_GB.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_it\_IT.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/SimpleHoliday.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DateRule.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/UCharacterIteratorWrapper.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_fr\_CA.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TaiwanCalendar.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_el\_GR.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_en\_US.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_de\_DE.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_de\_AT.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/data/HolidayBundle\_es\_MX.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/CharacterIteratorWrapper.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/data/HolidayBundle\_iw\_IL.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/HebrewHoliday.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/data/HolidayBundle\_fr\_FR.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/NullTransliterator.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/impl/data/HolidayBundle\_ja\_JP.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RangeDateRule.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/RelativeDateFormat.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/BasicTimeZone.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/RuleBasedTimeZone.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/VTimeZone.java  
No license file was found, but licenses were detected in source scan.

```
/*
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/RBNFPostProcessor.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/Utils.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2005 - 2012, International Business Machines Corporation and *
* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetRecog\_2022.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2002-2010, International Business Machines
* Corporation and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/USerializedSet.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2006-2015, Google, International Business Machines Corporation *
* and others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-  
jar/com/ibm/icu/text/DateTimePatternGenerator.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (C) 2013-2014, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* SharedObject.java, ported from sharedobject.h/.cpp
*
* C++ version created on: 2013dec19
* created by: Markus W. Scherer
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/SharedObject.java

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

```
/*
*****
* Copyright (C) 2004-2011, International Business Machines Corporation and *
* others. All Rights Reserved. *
* Copyright (C) 2009 , Yahoo! Inc. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/SelectFormat.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
* Copyright (c) 2001-2011, International Business Machines
* Corporation and others. All Rights Reserved.
*****
* Date Name Description
* 08/19/2001 aliu Creation.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TransliteratorRegistry.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/duration/impl/PeriodFormatterData.java  
No license file was found, but licenses were detected in source scan.

```
/*
*****
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* others. All Rights Reserved.
*****
*/
```

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/BreakIteratorFactory.java

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

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/ICUResourceBundleReader.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/UResourceBundle.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-

jar/com/ibm/icu/impl/ICUResourceBundleImpl.java

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/CharsetDetector.java

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Calendar.java

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/DateFormat.java

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/TimeUnit.java  
\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/TimeUnitFormat.java

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/\*

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\*\*\*\*\*

\* CollationCompare.java, ported from collationcompare.h/.cpp

\*

\* C++ version created on: 2012feb14 with new and old collation code  
\* created by: Markus W. Scherer

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/coll/CollationCompare.java

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/DateInterval.java

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/URLHandler.java

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

/\*

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\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/ICUDataVersion.java

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

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\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/impl/IllegalIcuArgumentException.java

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

/\*

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\* Copyright (c) 2004-2013, International Business Machines

\* Corporation and others. All Rights Reserved.

\*\*\*\*\*

\* Author: Alan Liu

\* Created: April 20, 2004

\* Since: ICU 3.0

\*\*\*\*\*

\*/

Found in path(s):

\* /opt/cola/permits/1114594826\_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/util/Measure.java

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

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\* others. All Rights Reserved. \*

\*\*\*\*\*

\*/

/\*\*

\* A transliterator that is composed of two or more other  
\* transliterator objects linked together. For example, if one  
\* transliterator transliterates from script A to script B, and  
\* another transliterates from script B to script C, the two may be  
\* combined to form a new transliterator from A to C.

\*

\* <p>Composed transliterators may not behave as expected. For

\* example, inverses may not combine to form the identity

\* transliterator. See the class documentation for { @link

```
* Transliterator} for details.
*
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
*
* @author Alan Liu
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/text/CompoundTransliterator.java
```

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

```
/*
*****
* Copyright (C) 2009, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-
jar/com/ibm/icu/impl/duration/DurationFormatterFactory.java
```

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

```
/*
*****
* Copyright (C) 1996-2009, International Business Machines Corporation and *
* others. All Rights Reserved. *
*****
*/
```

```
/**
```

```
* <code>ReplaceableString</code> is an adapter class that implements the
* <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.
*
```

```
* <p><em>Note:</em> This class does not support attributes and is not
* intended for general use. Most clients will need to implement
* { @link Replaceable } in their text representation class.
*
```

```
* <p>Copyright &copy; IBM Corporation 1999. All rights reserved.
*
```

```
* @see Replaceable
* @author Alan Liu
* @stable ICU 2.0
*/
```

Found in path(s):

```
* /opt/cola/permits/1114594826_1607546183.0/0/icu4j-56-1-sources-jar/com/ibm/icu/text/ReplaceableString.java
```

# 1.180 jul-to-slf4j 1.7.21

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# 1.181 woodstox-core 6.2.0

## 1.181.1 Available under license :

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# 1.182 owlapi-tools 4.2.7

## 1.182.1 Available under license :

Apache License

Version 2.0, January 2004

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# 1.183 byte-buddy-agent 1.10.15

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## 1.184 scala-compiler 2.10.0

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## 1.185 jackson-dataformat-xml 2.10.4

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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, as well as supported commercially by FasterXML.com.

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# 1.186 quartz 1.8.6

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Found in path(s):

```
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utils/counter/CounterManagerImpl.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utils/counter/CounterManager.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utils/counter/sampled/SampledCounter.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
```

```
jar/org/quartz/utis/counter/CounterConfig.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/counter/sampled/SampledRateCounterConfig.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/counter/sampled/SampledRateCounter.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/counter/CounterImpl.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/counter/sampled/TimeStampedCounterValue.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/counter/sampled/SampledCounterImpl.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/CircularLossyQueue.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utis/counter/Counter.java
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```
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/listeners/JobListenerSupport.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/listeners/TriggerListenerSupport.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/impl/jdbcjobstore/TablePrefixAware.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/plugins/SchedulerPluginWithUserTransactionSupport.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/utis/StringKeyDirtyFlagMap.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/listeners/SchedulerListenerSupport.java
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\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java

\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/xml/XMLSchedulingDataProcessor.java

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\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/ee/servlet/QuartzInitializerListener.java

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* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/jobs/ee/jms/SendDestinationMessageJob.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/jobs/ee/jms/SendTopicMessageJob.java
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* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/impl/jdbcjobstore/FiredTriggerRecord.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/CronTrigger.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/impl/jdbcjobstore/DB2v6Delegate.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
```

jar/org/quartz/ee/jta/UserTransactionHelper.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/Semaphore.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utils/DirtyFlagMap.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/PoolConnectionProvider.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/TimeBroker.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/Calendar.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/FileScanJob.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/Scheduler.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/LockException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/simpl/ZeroSizeThreadPool.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/NoSuchDelegateException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/RAMJobStore.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/simpl/SimpleTimeBroker.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/simpl>LoadingLoaderClassLoadHelper.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/DateIntervalTrigger.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/Trigger.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/Job.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/core/RemotableQuartzScheduler.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/simpl/SimpleClassLoadHelper.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SchedulerException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/xml/ValidationException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/JobPersistenceException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SchedulerListener.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/core/JobRunShellFactory.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utils/TriggerStatus.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/JmsHelper.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/SchedulerConfigException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/spi/InstanceIdGenerator.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/RemoteScheduler.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/TriggerFiredBundle.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-  
jar/org/quartz/impl/jdbcjobstore/CloudscapeDelegate.java

- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jmx/JMXInvokerJob.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/UnableToInterruptJobException.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/Util.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleInstanceIdGenerator.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/StdScheduler.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/SchedulerRepository.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/MSSQLDelegate.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/InvalidConfigurationException.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/SchedulerPlugin.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utis/PropertiesParser.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/SimpleJobFactory.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utis/Key.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/InitThreadContextClassLoaderHelper.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/StdJobRunShellFactory.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/core/QuartzSchedulerThread.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/NativeJob.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utis/DBConnectionManager.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/TriggerListener.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/FileScanListener.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DB2v7Delegate.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/JobListener.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/ClassLoaderHelper.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DBSemaphore.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/CascadingClassLoaderHelper.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/JobExecutionContext.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/ObjectAlreadyExistsException.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utis/JNDIConnectionProvider.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/JmsJobException.java
- \* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/TriggerUtils.java



\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/HolidayCalendar.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/core/SchedulerSignalerImpl.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/ejb/EJBInvokerJob.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/DriverDelegate.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SchedulerFactory.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/PostgreSQLDelegate.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/core/SchedulingContext.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/JobDataMap.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/SchedulerSignaler.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SchedulerContext.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SchedulerMetaData.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/plugins/history/LoggingTriggerHistoryPlugin.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/JobExecutionException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/JobStoreTX.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/plugins/management/ShutdownHookPlugin.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/ee/jms/SendQueueMessageJob.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/StdRowLockSemaphore.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/jdbcjobstore/Constants.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/jobs/NoOpJob.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/CriticalSchedulerException.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/SimpleTrigger.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/simpl/ThreadContextClassLoaderHelper.java

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\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/WeeklyCalendar.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/DirectSchedulerFactory.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/ee/servlet/QuartzInitializerServlet.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/BaseCalendar.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/StdSchedulerFactory.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/core/JobRunShell.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/utils/Pair.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/JobStore.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/impl/calendar/MonthlyCalendar.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/spi/ThreadPool.java

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\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/listeners/FilterAndBroadcastTriggerListener.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-jar/org/quartz/listeners/FilterAndBroadcastJobListener.java  
\* /opt/cola/permits/1147423557\_1617011810.9/0/quartz-1-8-6-sources-1-

```
jar/org/quartz/listeners/JobChainingJobListener.java
* /opt/cola/permits/1147423557_1617011810.9/0/quartz-1-8-6-sources-1-
jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java
```

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* /opt/cola/permits/1111264878_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1111264878_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1111264878_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/CronTriggerBean.java  
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java  
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java  
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java  
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java

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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/jasperreports/JasperReportsUtils.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/JavaMailSender.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/velocity/VelocityEngineUtils.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/quartz/QuartzJobBean.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/MailPreparationException.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/mail/javamail/SmartMimeMessage.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java  
\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/ui/velocity/VelocityEngineFactory.java  
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java

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* /opt/cola/permits/1111264878_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-
jar/org/springframework/scheduling/quartz/JobDetailAwareTrigger.java
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\* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java  
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- \* /opt/cola/permits/1111264878\_1607991875.24/0/spring-context-support-3-2-8-release-sources-1-jar/org/springframework/cache/jcache/JCacheCacheManager.java

# 1.188 json4s-jackson 3.2.5

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# 1.189 spring-osgi-core 1.2.1

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jar/org/springframework/osgi/config/OsgiNamespaceHandler.java
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\* /opt/cola/permits/1343829442\_1655158671.9419773/0/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/service/exporter/support/BeanNameServicePropertiesResolver.java  
\* /opt/cola/permits/1343829442\_1655158671.9419773/0/spring-osgi-core-1-2-1-sources-2-jar/org/springframework/osgi/util/OsgiServiceUtils.java

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\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/Profiler.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreePatternLexer.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/BufferedTreeNodeStream.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeIterator.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ParserRuleReturnScope.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/RuleReturnScope.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenSource.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-

jar/org/antlr/runtime/MismatchedTokenException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugTreeParser.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeRewriter.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/ClassicToken.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/CommonTreeAdaptor.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/ParseTree.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/misc/FastQueue.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugParser.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/FailedPredicateException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/UnwantedTokenException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/MismatchedNotSetException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeAdaptor.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeFilter.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/BaseTreeAdaptor.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/NoViableAltException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeRuleReturnScope.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/MismatchedTreeNodeException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/MismatchedSetException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/ANTLRStringStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Token.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeParser.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/Tree.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/BitSet.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/misc/IntArray.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/BufferedTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/CommonTreeNodeStream.java

\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/misc/Stats.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/ParseTreeBuilder.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeVisitorAction.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/LegacyCommonTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MismatchedRangeException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonTree.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Lexer.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/CommonErrorNode.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTreeNodeStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugEventListener.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/DebugTreeAdaptor.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteRuleSubtreeStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreeWizard.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/MissingTokenException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/TreePatternParser.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/debug/TraceDebugEventListener.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/SerializedGrammar.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/DOTTreeGenerator.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/ANTLRInputStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/TokenRewriteStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/tree/RewriteEarlyExitException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/DFA.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/CharStreamState.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-

jar/org/antlr/runtime/CommonToken.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/EarlyExitException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeNodeStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/ANTLRStreamReader.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/CommonTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/RewriteEmptyStreamException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugEventSocketProxy.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/Parser.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/CharStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/misc/LookaheadStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugEventRepeater.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/ANTLRFileStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/BaseTree.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/BlankDebugEventListener.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/DebugEventHub.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/BaseRecognizer.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/debug/RemoteDebugEventSocketListener.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/RewriteCardinalityException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-jar/org/antlr/runtime/IntStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/TreeVisitor.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/UnbufferedTokenStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/RecognitionException.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/tree/RewriteRuleNodeStream.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-  
jar/org/antlr/runtime/RecognizerSharedState.java  
\* /opt/cola/permits/1110919614\_1606872326.07/0/antlr-runtime-3-5-sources-1-

```
jar/org/antlr/runtime/tree/RewriteRuleElementStream.java
* /opt/cola/permits/1110919614_1606872326.07/0/antlr-runtime-3-5-sources-1-
jar/org/antlr/runtime/debug/Tracer.java
```

# 1.196 spring-osgi-io 1.2.1

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Found in path(s):

```
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/resolver/ImportedBundle.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/OsgiResourceUtils.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/OsgiBundleResource.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/OsgiBundleResourceLoader.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/resolver/PackageAdminResolver.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/OsgiBundleResourcePatternResolver.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/resolver/DependencyResolver.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/UrlContextResource.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/OsgiUtils.java
* /opt/cola/permits/1343829443_1655158664.5928473/0/spring-osgi-io-1-2-1-sources-3-
jar/org/springframework/osgi/io/internal/OsgiHeaderUtils.java
```

## 1.197 swagger-core 1.5.0

## 1.198 cassandra-driver-core 2.1.0

## 1.199 jackson-xc 2.10.4

### 1.199.1 Available under license :

# 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, as well as supported commercially by FasterXML.com.

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## 1.200 httpasyncclient 4.0.2

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## 1.201 spring-security-cas 3.2.4.RELEASE

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```
*/opt/cola/permits/1114224931_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/authentication/SpringCacheBasedTicketCache.java
```

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- \* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/web/CasAuthenticationFilter.java
- \* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/SamlServiceProperties.java
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- \* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/authentication/NullStatelessTicketCache.java
- \* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/userdetails/GrantedAuthorityFromAssertionAttributesUserDetailsService.java
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- \* /opt/cola/permits/1114224931\_1607455138.74/0/spring-security-cas-3-2-4-release-sources-jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java

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\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/ConnectionListener.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/CompositeChannelListener.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/ChannelListener.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/CompositeConnectionListener.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/core/ChannelAwareMessageListener.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/ChannelProxy.java  
\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/connection/ConnectionProxy.java

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\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/listener/AbstractMessageListenerContainer.java  
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\* /opt/cola/permits/1147423766\_1616950330.77/0/spring-rabbit-1-2-0-release-sources-5-jar/org/springframework/amqp/rabbit/config/QueueArgumentsParser.java  
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# 1.207 nimbus-jose-jwt 7.9

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## 1.209 vavr 0.10.2

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jar/io/grpc/netty/GrpcHttp2HeadersUtils.java

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\* /opt/cola/permits/1628852058\_1680728896.6341095/0/grpc-netty-1-9-0-sources-1-jar/io/grpc/netty/InternalHandlerSettings.java

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jar/io/grpc/netty/AbstractHttp2Headers.java

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jar/io/grpc/netty/NettyHandlerSettings.java

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jar/io/grpc/netty/SendResponseHeadersCommand.java

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jar/io/grpc/netty/CreateStreamCommand.java

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jar/io/grpc/netty/CancelClientStreamCommand.java

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jar/io/grpc/netty/NettyServerHandler.java

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jar/io/grpc/netty/NettyReadableBuffer.java

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jar/io/grpc/netty/NettyServerBuilder.java

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jar/io/grpc/netty/NettyChannelBuilder.java

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jar/io/grpc/netty/SendGrpcFrameCommand.java

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jar/io/grpc/netty/NettyWritableBufferAllocator.java

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jar/io/grpc/netty/NettyChannelProvider.java

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jar/io/grpc/netty/CancelServerStreamCommand.java

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jar/io/grpc/netty/AbstractNettyHandler.java

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jar/io/grpc/netty/JettyTlsUtil.java

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jar/io/grpc/netty/NettyServerProvider.java

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jar/io/grpc/netty/WriteQueue.java

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jar/io/grpc/netty/NettyClientStream.java

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jar/io/grpc/netty/ProtocolNegotiators.java

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jar/io/grpc/netty/SendPingCommand.java

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## 1.213 opencensus-contrib-grpc-metrics 0.10.0

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- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintTarget.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/package-info.java

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Found in path(s):

```
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/ElementKind.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/metadata/ReturnValueDescriptor.java
* /opt/cola/permits/1114844475_1607559692.86/0/validation-api-1-1-0-final-sources-5-
jar/javax/validation/executable/ValidateOnExecution.java
```

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- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Past.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/GenericBootstrap.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Payload.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidator.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ConstraintDescriptor.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Null.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Min.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Pattern.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ValidationProvider.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertFalse.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/ElementDescriptor.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Constraint.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDefinitionException.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Future.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Digits.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/Scope.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/UnexpectedTypeException.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/NotNull.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/AssertTrue.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationProviderResolver.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/GroupDefinitionException.java

\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintDeclarationException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Max.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/OverridesAttribute.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidationException.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/Default.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/BootstrapState.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Validation.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/PropertyDescriptor.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/TraversableResolver.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/Size.java

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- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMax.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/groups/package-info.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorContext.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Path.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/Validator.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ReportAsSingleViolation.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/MessageInterpolator.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/metadata/BeanDescriptor.java
- \* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/constraints/DecimalMin.java

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\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/spi/ConfigurationState.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ConstraintValidatorFactory.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorContext.java  
\* /opt/cola/permits/1114844475\_1607559692.86/0/validation-api-1-1-0-final-sources-5-jar/javax/validation/ValidatorFactory.java

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\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScope.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/GlobalTracer.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScope.java

# 1.216 opentracing-api 0.31.0

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## 1.217 semargl-core 0.6.1

## 1.218 jackson-jaxrs 2.10.4

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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](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# 1.219 sesame-rio-rdfxml 2.7.16

## 1.220 jaeger-core 0.28.0

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\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/NoopMetricsFactory.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Codec.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/InMemoryMetricsFactory.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/MetricsFactory.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/CompositeCodec.java

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\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/http/BaggageRestrictionResponse.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManager.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/B3TextMapCodec.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/baggage/BaggageSetter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Java6CompatibleThreadLocalRandom.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Reference.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/BaggageRestrictionManagerException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-

jar/io/jaegertracing/baggage/HttpBaggageRestrictionManagerProxy.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java  
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jar/io/jaegertracing/propagation/HexCodec.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-  
jar/io/jaegertracing/baggage/RemoteBaggageRestrictionManager.java  
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jar/io/jaegertracing/Constants.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/GuaranteedThroughputSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Http.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/Sender.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/CompositeReporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/RateLimiter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SenderException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/UdpSender.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/HttpSender.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Timer.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/ProbabilisticSamplingStrategy.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/PrefixedKeys.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/LoggingReporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/Injector.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Tracer.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RateLimitingSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/PerOperationSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/propagation/TextMapCodec.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/senders/ThriftSender.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java

\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Configuration.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/SpanContext.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/NotFourOctetsException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Utils.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metric.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ProbabilisticSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Tag.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/SystemClock.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Utils/Clock.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/ConstSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/Sampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Metrics.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/HttpSamplingManager.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/RemoteControlledSampler.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/reporters/Reporter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/SamplingStatus.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Counter.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/metrics/Gauge.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-jar/io/jaegertracing/Span.java  
\* /opt/cola/permits/1345101700\_1655310251.6646187/0/jaeger-core-0-28-0-sources-

```
jar/io/jaegertracing/LogData.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/reporters/NoopReporter.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/samplers/SamplingManager.java
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
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```
* /opt/cola/permits/1345101700_1655310251.6646187/0/jaeger-core-0-28-0-sources-
jar/io/jaegertracing/reporters/RemoteReporter.java
```

## 1.221 jersey-entity-filtering 2.24.1

## 1.222 commons-compress 1.20

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Found in path(s):

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/AbstractMapBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/SetUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-

jar/org/apache/commons/collections/TreeBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/TransformerUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/StaticBucketMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/SortedBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/DefaultMapBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/DoubleOrderedMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/SequencedHashMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/BufferUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractReferenceMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/IteratorUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/FactoryUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/StaticBucketMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/BoundedFifoBuffer.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/list/CursorableLinkedList.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/Factory.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ReferenceMap.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/BoundedCollection.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/BufferUnderflowException.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/BoundedFifoBuffer.java  
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jar/org/apache/commons/collections/bag/TreeBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/HashBag.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/PredicateUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/Buffer.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/ClosureUtils.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/HashBag.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/UnboundedFifoBuffer.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/set/AbstractSortedSetDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/UnmodifiableMap.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ListOrderedMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/AbstractOrderedBidiMapDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/list/FixedSizeList.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/DualTreeBidiMap.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/AbstractIteratorDecorator.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/ResettableListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/TypedCollection.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/DualHashBidiMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/TypedBuffer.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/FixedSizeMap.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/UnmodifiableBag.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/SortedBidiMap.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/UnmodifiableBidiMap.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/CircularFifoBuffer.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/BooleanComparator.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/MapIterator.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/collection/AbstractCollectionDecorator.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bidimap/UnmodifiableOrderedBidiMap.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/BlockingBuffer.java

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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/bag/PredicatedSortedBag.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/set/PredicatedSortedSet.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/TransformedSortedMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/buffer/AbstractBufferDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/CompositeMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractOrderedMapDecorator.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/ReferenceIdentityMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/CaseInsensitiveMap.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/set/AbstractSerializableSetDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/MultiKeyMap.java  
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jar/org/apache/commons/collections/set/MapBackedSet.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyOrderedIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/list/TreeList.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/map/AbstractInputCheckedMapDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/functors/PredicateDecorator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EmptyMapIterator.java  
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\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/FilterIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/comparators/ComparatorChain.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ProxyIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ArrayListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableMapIterator.java

\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ArrayIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ListIteratorWrapper.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/EnumerationIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/IteratorChain.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/SingletonIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/LoopingIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/IteratorEnumeration.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/SingletonListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/FilterListIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/CollatingIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java  
\* /opt/cola/permits/1116270720\_1607938941.31/0/commons-collections-3-1-sources-jar/org/apache/commons/collections/iterators/ProxyListIterator.java

## 1.233 hk2-core-module 2.5.0-b05

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## 1.234 groovy-json 3.0.8

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- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/BaseJsonParser.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonException.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMap.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CacheType.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonParser.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Value.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueContainer.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/StreamingJsonBuilder.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharacterSource.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharScanner.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Cache.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/NumberValue.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringService.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharBuf.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/IO.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Exceptions.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/DefaultJsonGenerator.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserCharArray.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/SimpleCache.java
- \* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/FastStringServiceFactory.java
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\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonOutput.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonBuilder.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyValueMap.java  
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\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserLax.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurperClassic.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonSlurper.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/CharSequenceValue.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueMapImpl.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonFastParser.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ValueList.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/DefaultFastStringServiceFactory.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ReaderCharacterSource.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/LazyMap.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonLexer.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/ArrayUtils.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonTokenType.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonParserType.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/MapItemValue.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Sys.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/Dates.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonDelegate.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java  
\* /opt/cola/permits/1200735282\_1630953841.57/0/groovy-json-3-0-8-sources-jar/groovy/json/JsonGenerator.java

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jar/groovy/json/StringEscapeUtils.java  
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#  
org.apache.groovy.json.DefaultFastStringServiceFactory
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*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationFilter.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/Continuation.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationThrowable.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/package-info.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/Servlet3Continuation.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/FauxContinuation.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationListener.java
*/opt/cola/permits/1147649994_1617226881.88/0/jetty-continuation-9-3-27-v20190418-sources-2-jar/org/eclipse/jetty/continuation/ContinuationSupport.java
```

## 1.238 util 0.8.3

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## 1.241 commons-configuration2 2.0

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* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
 * 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.
 */

```

Found in path(s):

```

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/JSRInlinerAdapter.java

```

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```

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*/
/**
 * Creates a new {@link AnalyzerAdapter}. Subclasses must not use this
 * constructor. 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 null.
 * @throws IllegalStateException
 *     If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/AnalyzerAdapter.java

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- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/attrs/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/package.html
- \* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/package.html

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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/TypePath.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/TypeReference.java

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\*/

/\*\*

\* Constructs a new {@link ClassNode}. *Subclasses must not use this  
\* constructor*. Instead, they must use the {@link #ClassNode(int)}  
\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

Found in path(s):

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/ClassNode.java

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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.
 */
```

Found in path(s):

```
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/Textifier.java
```

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/**
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```

Found in path(s):

```
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Assignment.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/Soundex.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/ast/DeepAssignmentNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/impl/BaseVariableResolverFactory.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoUntilNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/integration/PropertyHandler.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/FastList.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/CompiledEvalNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/templates/res/CommentNode.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
```

jar/org/mvel2/integration/impl/DefaultLocalVariableResolverFactory.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/compiler/ExecutableAccessorSafe.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/util/InternalNumber.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/ast/InterceptorWrapper.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/dynamic/DynamicOptimizer.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/dynamic/DynamicSetAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ParserContext.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/integration/ResolverTools.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/templates/res/TextNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/ShellSession.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/UnresolveablePropertyException.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/conversion/BigDecimalCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/MethodStub.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/integration/impl/TypeInjectionResolverFactoryImpl.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/ast/LiteralDeepPropertyNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/text/TextUtil.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/sh/CommandException.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/templates/TemplateSyntaxError.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/templates/res/Opcodes.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/CommandSet.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/conversion/BigIntegerCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/templates/res/CompiledExpressionNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/sh/command/basic/Set.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/AccessorOptimizer.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/util/ASTLinkedList.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/sh/command/basic/Exit.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/AbstractOptimizer.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/Unit.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/BlankLiteral.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/CharArrayCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/StaticMethodImportResolver.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/util/TemplateTools.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/debug/Debugger.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DeclTypedVarNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ByteCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/ForEachNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/SimpleTemplateRegistry.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/InlineCollectionNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/CompiledTemplate.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledNamedIncludeNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPreFixDecNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ProtoVarNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/PreFixIncNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/TemplateRegistry.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/PropertyAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/PropertyAccessException.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/SetCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Fold.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/CollectionParser.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/StaticImportNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/Substatement.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/Command.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/compiler/CompiledExpression.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ForNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/ExpressionCompiler.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ReflectionUtil.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/FloatCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/Converter.java  
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ReturnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/compiler/CompiledAccExpression.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/CompiledTerminalExpressionNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/ExpressionNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/basic/Help.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ThisWithNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/DoNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/And.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/IndexedPostFixIncNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ArraySize.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/ShortCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/util/ArrayIterator.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/conversion/CharCH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/optimizers/dynamic/DynamicAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/impl/MapVariableResolverFactory.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/ArrayTools.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/OperatorNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/ForEachNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/sh/command/file/DirList.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/templates/res/Node.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/util/StackElement.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ast/EndOfStatement.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/MVELRuntime.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/integration/VariableResolver.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/compiler/ExecutableAccessor.java

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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/util/ASMifiable.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/util/Textifiable.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 first 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.
 */

```

Found in path(s):

```
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/LocalVariableAnnotationNode.java
```

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```

```
*/
```

```
/**
```

```
 * Creates a new { @link GeneratorAdapter}. 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.

\*/

Found in path(s):

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/GeneratorAdapter.java

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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Context.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/InnerClassNode.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/MethodNode.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/commons/RemappingAnnotationAdapter.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/ClassReader.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LabelNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InsnList.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/InclInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/AnalyzerException.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/JumpInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Label.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Attribute.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FieldNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldWriter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/ASMifier.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Opcodes.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TableSwitchInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/FrameNode.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handler.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/AnnotationWriter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/MethodVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Frame.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceAnnotationVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/ParameterNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/Remapper.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Type.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/TraceMethodVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/FieldVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassWriter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Edge.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/AdviceAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/signature/SignatureReader.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/RemappingFieldAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/analysis/Analyzer.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Item.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/util/Printer.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/util/TraceClassVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/analysis/BasicInterpreter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ClassVisitor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/ByteVector.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/InvokeDynamicInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/analysis/SourceInterpreter.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/Method.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/InsnNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Frame.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/commons/SerialVersionUIDAdder.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/asm/MethodWriter.java

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/Handle.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/asm/commons/TableSwitchGenerator.java
```

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/**
```

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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessor.java
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessorNest.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/MethodAccessorNH.java
* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
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* /opt/cola/permits/1114653409_1607543415.13/0/mvel2-2-2-8-final-sources-1-
jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessor.java
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFieldAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/collection/MArrayCreator.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/IndexedCharSeqAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/FunctionAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/ArrayAccessorNest.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/MapAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/collection/MapCreator.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessorNH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/VariableAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/ListAccessorNest.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/BaseAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicSetterAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/StaticVarAccessorNH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/StaticReferenceAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/DynamicFunctionAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessorNH.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/optimizers/impl/refl/nodes/FieldAccessor.java  
\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-  
jar/org/mvel2/optimizers/impl/refl/nodes/GetterAccessor.java  
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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/ASMContentHandler.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/SAXCodeAdapter.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/Processor.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/SAXFieldAdapter.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/SAXAdapter.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/SAXAnnotationAdapter.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/SAXClassAdapter.java

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jar/org/mvel2/ConversionHandler.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/DataTypes.java

\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/ErrorDetail.java

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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-

jar/org/mvel2/asm/xml/package.html

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\* /opt/cola/permits/1114653409\_1607543415.13/0/mvel2-2-2-8-final-sources-1-jar/org/mvel2/asm/xml/asm-xml.dtd

## 1.247 sesame-rio-binary 2.7.16

## 1.248 jersey-common 2.5.1

## 1.249 json4s-ext 3.2.5

### 1.249.1 Available under license :

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\* /opt/cola/permits/1112015975\_1607033487.84/0/json4s-ext-2-10-3-2-5-sources-1-jar/org/json4s/ext/JodaTimeSerializers.scala

# 1.250 cglib 3.1

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ASM: a very small and fast Java bytecode manipulation framework
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## 1.251 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 "";
}

```

# 1.252 amqp-client 3.1.3

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Upstream-Name: jtop

Upstream-Contact: Michael Jones <mj@mikejonesey.co.uk>

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## 1.255 hazelcast-client 3.8.9

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# 1.257 jedis 2.10.2

# 1.258 jackson-databind 2.10.4

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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

1

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.activation,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;version="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.namespace,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))"

Tool: Bnd-3.5.0.201709291849

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# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
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text/html html htm HTML HTM
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image/ief ief
image/jpeg jpeg jpg jpe JPG
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text/css css  
text/csv csv

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# X-Windows pixmap (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-windowdump 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):

```
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/javamail/mime.types
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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/caffeine/CaffeineCache.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java
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\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/JCacheCacheManager.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailMessage.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java  
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\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/MimeMessageHelper.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineFactory.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/VelocityEngineUtils.java

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\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java

\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java

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- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailParseException.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailSendException.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailPreparationException.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
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- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/MimeMessagePreparator.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/javamail/SmartMimeMessage.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/quartz/DelegatingJob.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/ui/velocity/SpringResourceLoader.java
- \* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/mail/MailException.java

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jar/org/springframework/cache/jcache/interceptor/CachePutInterceptor.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/freemarker/SpringTemplateLoader.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
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* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/JCacheOperationSource.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/ui/jasperreports/JasperReportsUtils.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/interceptor/DefaultCacheMethodDetails.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
* /opt/cola/permits/1147791426_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-
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jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/mail/javamail/JavaMailSender.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/mail/javamail/MimeMailMessage.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllOperation.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/scheduling/quartz/QuartzJobBean.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/config/JCacheConfigurer.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/guava/GuavaCacheManager.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java  
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jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java  
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jar/org/springframework/mail/javamail/InternetAddressEditor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/JCacheOperationSourcePointcut.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-  
jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java  
\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-

jar/org/springframework/mail/javamail/ConfigurableMimeTypeMap.java

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\* /opt/cola/permits/1147791426\_1617249220.74/0/spring-context-support-4-3-19-release-sources-2-jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java

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# 1.278 commons-http-client 3.0.1

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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 $
 * $Revision: 354155 $
 * $Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) $
 *
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/multipart/FilePart.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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/\*

\* \$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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\* \$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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* /opt/cola/permits/1114224808_1607455150.89/0/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/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/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19 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/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/HttpConnectionManager.java,v 1.24 2004/07/05 22:46:58 olegk Exp \$

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/HttpConnectionManager.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/DateUtil.java,v 1.2 2004/12/24 20:36:13 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/util/URLConnection.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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\* \$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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\* \$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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* $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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\* \$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/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/RedirectException.java,v 1.2 2004/04/18 23:51:35  
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/ContentLengthInputStream.java,v 1.12 2004/10/04
22:05:44 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/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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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.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/ResponseConsumedWatcher.java,v 1.5 2004/04/18

23:51:35 jsdever Exp \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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jar/org/apache/commons/httpclient/ResponseConsumedWatcher.java

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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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/NTCredentials.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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpClientParams.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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/AuthSchemeBase.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/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/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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```

* /opt/cola/permits/1114224808_1607455150.89/0/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/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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\* /opt/cola/permits/1114224808\_1607455150.89/0/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/params/HttpMethodParams.java,v 1.17 2004/10/06 17:32:04 olegk Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/params/HttpMethodParams.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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/ChunkedOutputStream.java

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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 \$

\* \$Revision: 155418 \$

\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/CircularRedirectException.java
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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/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/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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jar/org/apache/commons/httpclient/cookie/MalformedCookieException.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/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).
*/
```

Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/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/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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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-

commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthenticator.java,v 1.19 2004/10/06

17:32:04 olegk Exp \$

\* \$Revision: 155418 \$

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jar/org/apache/commons/httpclient/auth/HttpAuthenticator.java
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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 $
* $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/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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Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpRecoverableException.java

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

/\*

\* \$Header: \$

\* \$Revision: 155418 \$

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* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
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Found in path(s):

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/methods/TraceMethod.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/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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/methods/StringRequestEntity.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/ProtocolException.java,v 1.4 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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-

jar/org/apache/commons/httpclient/ProtocolException.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/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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jar/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.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/protocol/ProtocolSocketFactory.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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jar/org/apache/commons/httpclient/protocol/ProtocolSocketFactory.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/cookie/CookieSpec.java,v 1.11 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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/cookie/CookieSpec.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/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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\* /opt/cola/permits/1114224808\_1607455150.89/0/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/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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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/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/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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthState.java

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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 $
* $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/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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\* /opt/cola/permits/1114224808\_1607455150.89/0/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/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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\* \$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

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\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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jar/org/apache/commons/httpclient/HttpClient.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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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/DefaultMethodRetryHandler.java,v 1.4 2004/07/05 22:46:58 olegk Exp \$

\* \$Revision: 155418 \$

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jar/org/apache/commons/httpclient/DefaultMethodRetryHandler.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/DefaultProtocolSocketFactory.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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jar/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.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/EncodingUtil.java,v 1.8 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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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/util/EncodingUtil.java

```

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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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HeaderElement.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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/\*

\* \$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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jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.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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Found in path(s):

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* /opt/cola/permits/1114224808_1607455150.89/0/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/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/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/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
*/
```

Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/auth/NTLM.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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\* \$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 \$

\* \$Revision: 155418 \$

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jar/org/apache/commons/httpclient/methods/ExpectContinueMethod.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/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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jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.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/AuthChallengeParser.java,v 1.10 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/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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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6 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/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk 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/HttpHost.java,v 1.3 2005/01/14 21:16:40 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/StringPart.java,v 1.11 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/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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jar/org/apache/commons/httpclient/HttpURL.java

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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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/methods/multipart/PartSource.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/HttpStatus.java,v 1.18 2004/05/02 11:21:13 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/AuthScheme.java,v 1.12 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/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk Exp \$

\* \$Revision: 354155 \$

\* \$Date: 2005-12-05 15:18:10 -0500 (Mon, 05 Dec 2005) \$

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* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/auth/AuthScope.java

```

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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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-  
jar/org/apache/commons/httpclient/NameValuePair.java

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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/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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\* \$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/params/HttpParamsFactory.java,v 1.5 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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jar/org/apache/commons/httpclient/params/HttpParamsFactory.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 <[a href="http://davenport.sourceforge.net/ntlm.html"](http://davenport.sourceforge.net/ntlm.html)>

\* <http://davenport.sourceforge.net/ntlm.html></a>.  
\*  
\* @author <a href="mailto:remm@apache.org">Remy Maucherat</a>  
\* @author Rodney Waldhoff  
\* @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>  
\* @author Ortwin Gl??ck  
\* @author Sean C. Sullivan  
\* @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>  
\* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>  
\* @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>  
\*/

Found in path(s):

\* /opt/cola/permits/1114224808\_1607455150.89/0/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/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk  
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/HttpMethod.java,v 1.43 2004/10/07 16:14:15 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/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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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/auth/AuthenticationException.java,v 1.6 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 155418 $
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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/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55  
olegk Exp \$  
\* \$Revision: 291181 \$  
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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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\* \$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 \$

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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/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/HttpConstants.java,v 1.15 2004/04/18 23:51:35  
jsdever Exp \$  
\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/HttpConstants.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 \$

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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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* /opt/cola/permits/1114224808_1607455150.89/0/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/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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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/methods/HeadMethod.java,v 1.29 2004/06/13  
20:22:19 olegk Exp \$  
\* \$Revision: 155418 \$  
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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/methods/HeadMethod.java  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 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/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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jar/org/apache/commons/httpclient/cookie/CookiePolicy.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/PutMethod.java,v 1.26 2004/04/18 23:51:37
jsdever Exp $
* $Revision: 155418 $
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jar/org/apache/commons/httpclient/methods/PutMethod.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/PostMethod.java,v 1.58 2004/08/08 12:50:09  
olegk 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/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/methods/ByteArrayRequestEntity.java,v 1.3 2004/05/13 02:26:08 mbecke Exp \$

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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/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/util/IdleConnectionHandler.java,v 1.2 2004/05/13  
02:40:36 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/protocol/SSLProtocolSocketFactory.java,v 1.10 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/Header.java,v 1.17 2004/09/15 20:42:17 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/util/DateParser.java,v 1.11 2004/11/06 19:15:42
mbecke Exp $
* $Revision: 224451 $
* $Date: 2005-07-23 06:23:59 -0400 (Sat, 23 Jul 2005) $
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jar/org/apache/commons/httpclient/util/DateParser.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/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/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/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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Found in path(s):

```

* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.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/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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jar/org/apache/commons/httpclient/HttpVersion.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/URIException.java,v 1.12 2004/09/30 18:53:20 olegk

Exp \$

\* \$Revision: 155418 \$  
\* \$Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) \$

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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/URIException.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/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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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/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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Found in path(s):

```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/Credentials.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/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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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/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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\* /opt/cola/permits/1114224808\_1607455150.89/0/commons-httpclient-3-0-1-sources-3-jar/org/apache/commons/httpclient/util/TimeoutController.java

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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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\* \$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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```
* /opt/cola/permits/1114224808_1607455150.89/0/commons-httpclient-3-0-1-sources-3-
jar/org/apache/commons/httpclient/params/HostParams.java
No license file was found, but licenses were detected in source scan.
```

/\*

\* \$HeadURL:

```
https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/branches/HTTPCLIENT_3_0_BRANCH/src/jav
a/org/apache/commons/httpclient/util/ParameterFormatter.java $
```

\* \$Revision: 178662 \$

\* \$Date: 2005-05-26 14:21:14 -0400 (Thu, 26 May 2005) \$

\*

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jar/org/apache/commons/httpclient/util/ParameterFormatter.java

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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/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46 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/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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jar/org/apache/commons/httpclient/params/DefaultHttpParams.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/RFC2109Spec.java,v 1.21 2004/06/05
16:49:20 olegk Exp $
* $Revision: 290666 $
* $Date: 2005-09-21 05:30:56 -0400 (Wed, 21 Sep 2005) $
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jar/org/apache/commons/httpclient/cookie/RFC2109Spec.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 \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/RFC2617Scheme.java,v 1.10 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/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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```
/*
* $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 $
* $Revision: 155418 $
* $Date: 2005-02-26 08:01:52 -0500 (Sat, 26 Feb 2005) $
*
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jar/org/apache/commons/httpclient/HeaderGroup.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 \$  
\* \$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 \$

\* \$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/MultipartPostMethod.java,v 1.27 2004/10/06 03:39:59 mbecke Exp \$

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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/methods/DeleteMethod.java,v 1.14 2004/04/18
23:51:37 jsdever Exp $
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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/methods/multipart/FilePartSource.java,v 1.10  
2004/04/18 23:51:37 jsdever Exp \$  
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## 1.279 jersey-container-servlet 2.24.1

## 1.280 xml-commons 1.3.4

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- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/http/BaggageRestrictionResponse.java
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- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerSpan.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerTracer.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/Configuration.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerSpanContext.java

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- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/package-info.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSenderFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/TraceIdOutOfBoundException.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerObjectFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSender.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SenderFactory.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/PropagationRegistry.java
- \* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/SenderResolver.java

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```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RateLimitingSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/ConstSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/Http.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/SamplingStatus.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/EmptyIpException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Extractor.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/NoopReporter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/LogData.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Metric.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Injector.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Gauge.java
```

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Tag.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/HttpSamplingManager.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/PerOperationSamplingParameters.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/InMemoryReporter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/PerOperationSampler.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SamplingManager.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/PrefixKeys.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/utils/Utils.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/CompositeReporter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sampler.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/GuaranteedThroughputSampler.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Reporter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Timer.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Counter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/OperationSamplingParameters.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/LoggingReporter.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/Constants.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sender.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Metrics.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/SystemClock.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/ProbabilisticSampler.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/Clock.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/SenderException.java  
\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/internal/utils/RateLimiter.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/internal/exceptions/NotFourOctetsException.java

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\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Codec.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/internal/metrics/InMemoryMetricsFactory.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/internal/metrics/NoopMetricsFactory.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/spi/MetricsFactory.java

\* /opt/cola/permits/1152086972\_1618069762.04/0/jaeger-core-1-5-0-sources-

jar/io/jaegertracing/internal/propagation/CompositeCodec.java

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```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/clock/MillisAccurateClock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/MDCScopeManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/clock/MicrosAccurateClock.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/propagation/TraceContextCodec.java
```

## 1.285 hk2-locator 2.5.0-b05

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## 1.286 hk2-runlevel 2.5.0-b05

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## 1.287 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 classifier
      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>
```

```
<email>christopher@currie.com</email>
```

```
</developer>
```

```
</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 scalbeans isn't a custom build  
  // checkSnapshotDependencies,  
  inquireVersions,  
  runTest,  
  setReleaseVersion,  
  commitReleaseVersion,  
  tagRelease,  
  setNextVersion,  
  commitNextVersion  
)
```

Found in path(s):

```
* /opt/cola/permits/1112016056_1612266516.32/0/jackson-module-scala-2-1-5-zip/jackson-module-scala-jackson-  
module-scala-2.1.5/build.sbt
```

## 1.288 protobuf-java 3.5.1

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// * Neither the name of Google Inc. nor the names of its  
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```

Found in path(s):

```
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/LongArrayList.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/AbstractParser.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/api.proto  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Internal.java  
* /opt/cola/permits/1000765326_1651084665.81/0/protobuf-java-3-5-1-sources-  
jar/com/google/protobuf/Service.java
```

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Descriptors.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ServiceException.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormat.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Utf8.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/type.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtobufArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistryLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/SingleFieldBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/source\_context.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatEscaper.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatParseLocation.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/timestamp.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyFieldLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/struct.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedInputStream.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/FloatArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLiteToString.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/empty.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistry.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/duration.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Parser.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntry.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyField.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/LazyStringList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UninitializedMessageException.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RopeByteString.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RpcController.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/InvalidProtocolBufferException.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/any.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Extension.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/NioByteString.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageOrBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessageV3.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteBufferWriter.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteString.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/AbstractMessageLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/SmallSortedMap.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapField.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MapEntryLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnsafeByteOperations.java  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ByteOutput.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExtensionRegistryFactory.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnknownFieldSetLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RpcUtil.java  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/wrappers.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/DynamicMessage.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/BlockingRpcChannel.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java

\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ExperimentalApi.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtocolMessageEnum.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessageLite.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/BlockingService.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/TextFormatParseInfoTree.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/WireFormat.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/google/protobuf/compiler/plugin.proto  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/ProtocolStringList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/BooleanArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/CodedOutputStream.java  
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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/Message.java

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\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/UnknownFieldSet.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/IntArrayList.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/MessageReflection.java  
\* /opt/cola/permits/1000765326\_1651084665.81/0/protobuf-java-3-5-1-sources-jar/com/google/protobuf/GeneratedMessage.java

# 1.289 guice-multibindings 4.0

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/registry/CompositeRegistryEventConsumer.java

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\* /opt/cola/permits/1343828803\_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-jar/io/github/resilience4j/core/RegistryStore.java

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```

```
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-  
jar/io/github/resilience4j/core/registry/package-info.java
```

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jar/io/github/resilience4j/core/registry/AbstractRegistry.java
```

```
* /opt/cola/permits/1343828803_1655158616.5115366/0/resilience4j-core-1-7-1-sources-2-  
jar/io/github/resilience4j/core/Registry.java
```

## 1.294 jetty-webapp 9.3.27.v20190418

## 1.295 swagger-springmvc 0.8.8

## 1.296 quartz 2.2.1

## 1.297 opencensus-api 0.10.0

# 1.298 jetty-xml 9.3.27.v20190418

# 1.299 instrumentation-api 0.4.3

# 1.300 commons-pool 1.3

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\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/TransactionUsageException.java  
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\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java  
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\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java

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* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/dao/NonTransientDataAccessResourceException.java
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\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java

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jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
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\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java  
\* /opt/cola/permits/1147791452\_1617098873.11/0/spring-tx-4-3-19-release-sources-3-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java  
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* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/Transactional.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
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* /opt/cola/permits/1147791452_1617098873.11/0/spring-tx-4-3-19-release-sources-3-
jar/org/springframework/transaction/support/ResourceHolder.java
```

## 1.303 jackson-dataformat-yaml 2.10.4

## 1.303.1 Available under license :

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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, as well as supported commercially by FasterXML.com.

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## 1.304 javax-ws-rs-api 2.0.1

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jar/javax/ws/rs/core/Link.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/Entity.java

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jar/javax/ws/rs/Priorities.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/client/ResponseProcessingException.java  
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 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/ext/InterceptorContext.java  
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 jar/javax/ws/rs/NameBinding.java  
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 jar/javax/ws/rs/core/Feature.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/ext/ReaderInterceptor.java  
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 jar/javax/ws/rs/ext/WriterInterceptor.java  
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 jar/javax/ws/rs/container/DynamicFeature.java  
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 jar/javax/ws/rs/core/MultivaluedHashMap.java

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jar/javax/ws/rs/ProcessingException.java  
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jar/javax/ws/rs/client/WebTarget.java  
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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/GET.java
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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/QueryParam.java  
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/**
 * Convert the supplied value to a String.
 * <p>
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 * Users should be aware that any such support for the method comes at the expense of producing
 * non-portable code.
 * </p>
 *
 * @param value the value of type {@code T}.
 * @return a String representation of the value.
 *
 * @throws IllegalArgumentException if the supplied object cannot be
 *         serialized or is {@code null}.
 */

```

Found in path(s):

```

* /opt/cola/permits/1000741842_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-
jar/javax/ws/rs/ext/ParamConverter.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/MultivaluedMap.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/GenericType.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/Path.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-

jar/javax/ws/rs/core/PathSegment.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/Provider.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/MessageBodyWriter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ext/package-  
info.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/HeaderParam.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/StreamingOutput.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ExceptionMapper.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/UriBuilderException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/Encoded.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/Providers.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ext/ContextResolver.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Context.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/package-info.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/SecurityContext.java

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jar/javax/ws/rs/WebApplicationException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/Response.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/CacheControl.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/core/MediaType.java

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\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/Suspended.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/core/FeatureContext.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/ConstrainedTo.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/RuntimeType.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/ConnectionCallback.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/TimeoutHandler.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/ResourceContext.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/CompletionCallback.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/container/package-info.java  
 \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
 jar/javax/ws/rs/BeanParam.java

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jar/javax/ws/rs/InternalServerErrorException.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/ClientErrorException.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/NotAcceptableException.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-  
jar/javax/ws/rs/RedirectionException.java

\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/BadRequestException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/Configuration.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ServiceUnavailableException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientResponseFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerResponseFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/core/AbstractMultivaluedMap.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerRequestFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/PreMatching.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientRequestFilter.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAuthorizedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotAllowedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/AsyncResponse.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientResponseContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ForbiddenException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotSupportedException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/ServerErrorException.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/client/ClientRequestContext.java  
\* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/NotFoundException.java

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- \* /opt/cola/permits/1000741842\_1654022862.0826519/0/javax-ws-rs-api-2-0-1-sources-jar/javax/ws/rs/container/ContainerResponseContext.java

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# 1.308 sesame-rio-turtle 2.7.16

## 1.309 mibble-commercial-mibs 2.9.3

### 1.309.1 Available under license :

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```
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]
```

```
SnmAdminString
```

```
    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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Co-Chair: Richard Woundy, [Richard\\_Woundy@cable.comcast.com](mailto: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.

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REVISION "200609180000Z" -- September 18, 2006

DESCRIPTION

"Initial version, published as RFC 4682."

::= { mib-2 140 }

-- Textual Conventions

PkMtaDevProvEncryptAlg ::= 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 }

#### `pktcMtaDevSnmEntity` 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 PkctcMtaDevProvEncryptAlg

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/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.

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 HCNM-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>

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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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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 OAM 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 OAM 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 OAM actions with it. As an example, an active OAM entity can put the remote OAM entity in a loopback state, where a passive OAM 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. OAM 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 OAM

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 `terminatingLoopback(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
<code>noLoopback</code>	<code>FWD</code>	<code>FWD</code>	<code>FWD</code>	<code>FWD</code>
<code>initLoopback</code>	<code>DISCARD</code>	<code>DISCARD</code>	<code>FWD</code>	<code>FWD</code>
<code>rmtLoopback</code>	<code>DISCARD</code>	<code>FWD</code>	<code>LPBK</code>	<code>DISCARD</code>
<code>tmtngLoopback</code>	<code>DISCARD</code>	<code>DISCARD</code>	<code>LPBK</code>	<code>DISCARD</code>
<code>lclLoopback</code>	<code>LPBK</code>	<code>DISCARD</code>	<code>DISCARD</code>	<code>FWD</code>
<code>unknown</code>	<code>***</code>	<code>any other combination</code>		<code>***</code>

"

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 OAMPDU received on this interface. Event Notification OAMPDU 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 OAMPDU transmitted

on this interface. Event Notification OAMPDU 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 OAMPDU received on this interface. Event Notification OAMPDU 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 OAMPDU 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 OAM 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 OAM events (as indicated by the eventSupport bit in dot3OamFunctionsSupported). 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

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

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

$$\text{dot3OamErrSymPeriodWindow} = ((2^{32}) * \text{dot3OamErrSymPeriodWindowHi}) + \text{dot3OamErrSymPeriodWindowLo}$$

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

$$\text{dot3OamErrSymPeriodThreshold} = ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) + \text{dot3OamErrSymPeriodThresholdLo}$$

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

$$\text{dot3OamErrSymPeriodThreshold} = \\ ((2^{32}) * \text{dot3OamErrSymPeriodThresholdHi}) \\ + \text{dot3OamErrSymPeriodThresholdLo}$$

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:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

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:

$$\text{dot3OamEventLogWindow} = ((2^{32}) * \text{dot3OamEventLogWindowHi}) + \text{dot3OamEventLogWindowLo}$$

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:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

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:

$$\text{dot3OamEventLogThreshold} = ((2^{32}) * \text{dot3OamEventLogThresholdHi}) + \text{dot3OamEventLogThresholdLo}$$

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOT3-OAM-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 }

snaLuSessnLocalAppName 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):
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNA-NAU-
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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1158-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

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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,  
mdmCCCSetupFailTimer, mdmCCResultCodeEnable,  
mdmCCEscapeAction, mdmCCCDuration,  
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 { mdmECEErrorControlUsed }

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 existence 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

mdmCCCcallDuration 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.

**mnpiIncompatibility:**

The modems are unable to resolve MNP protocol differences.

**protocolError:**

An error occurred 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 MdmECHandleEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The modem error correcting table augments the modem ID  
table."  
 ::= { mdmMIBObjects 9 }

mdmECHandleEntry OBJECT-TYPE  
SYNTAX MdmECHandleEntry  
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 }

MdmECHandleEntry ::= SEQUENCE {  
mdmECHandleErrorControlUsed OBJECT IDENTIFIER  
}

mdmECHandleErrorControlUsed 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"  
 ::= { mdmECHandleEntry 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 gstmModulationSchemeActive"

::= { mdmSCEnter 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

successfully 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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/Modem-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  
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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
- spdIpsHeaderFilterTable

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 { 'ffffffffffffe'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

--

spdIpsHeaderFilterTable OBJECT-TYPE

SYNTAX SEQUENCE OF SpdIpsHeaderFilterEntry

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 }

spdIpsHeaderFilterEntry OBJECT-TYPE

SYNTAX SpdIpsHeaderFilterEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A definition of a particular filter."

INDEX { spdIpsHeaderFilterName }

::= { spdIpsHeaderFilterTable 1 }

SpdIpsHeaderFilterEntry ::= SEQUENCE {

spdIpsHeaderFilterName SnmpAdminString,

spdIpsHeaderFilterType BITS,

spdIpsHeaderFilterClassification INTEGER,

spdIpsHeaderFilterProtectionAuth INTEGER,

spdIpsHeaderFilterLastChanged TimeStamp,

spdIpsHeaderFilterStorageType StorageType,

spdIpsHeaderFilterRowStatus RowStatus

}

spdIpsHeaderFilterName OBJECT-TYPE

SYNTAX SnmpAdminString (SIZE(1..32))

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The administrative name for this filter."

::= { spdIpsHeaderFilterEntry 1 }

spdIpsHeaderFilterType 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 spdIpsHeaderFilterClassification

object indicates how the packet is filtered. If this object is set to protectionAuthority(1), the spdIpsHeaderFilterProtectionAuth object indicates how the packet is filtered."

::= { spdIpsHeaderFilterEntry 2 }

spdIpsHeaderFilterClassification 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"

::= { spdIpsHeaderFilterEntry 3 }

spdIpsHeaderFilterProtectionAuth 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"

::= { spdIpsHeaderFilterEntry 4 }

spdIpsHeaderFilterLastChanged 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."

::= { spdIpsHeaderFilterEntry 5 }

spdIpsHeaderFilterStorageType 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 }

::= { spdIpsHeaderFilterEntry 6 }

## spdIpsHeaderFilterEntry 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 spdIpsHeaderFilterType object are not met. Specifically, if the spdIpsHeaderFilterType bit for classification(0) is set, the spdIpsHeaderFilterClassification column MUST have a valid value for the row status to be set to active. If the spdIpsHeaderFilterType bit for protectionAuthority(1) is set, the spdIpsHeaderFilterProtectionAuth 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."

::= { spdIpsHeaderFilterEntry 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 spdIpssecSystemPolicyNameGroup

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 spdIpssoHeaderFilterGroup

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 spdIpssecSystemPolicyNameGroup

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 spdIpssoHeaderFilterGroup

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 spdIpssoHeadFiltProtectionAuth  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpssoHeadFiltRowStatus  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpssoHeadFiltStorageType  
MIN-ACCESS read-only  
DESCRIPTION  
"Write access is not required."

OBJECT spdIpssoHeadFiltType  
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 }

spdIpssecSystemPolicyNameGroup 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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/IPSEC-SPD-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"

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DESCRIPTION

"The MIB module defines the ITU Alarm  
textual convention for objects expected to require  
regular extension.

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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),
  - rectifierLowFVvoltage (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),
  - lowTemperature (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),  
 lossOfRealTime (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),  
 underlyingResourceUnavailable (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),  
 applicationSubsystemFailure (501),  
 bandwidthReducedX733 (502),  
 callEstablishmentError (503),  
 communicationsProtocolError (504),  
 communicationsSubsystemFailure (505),  
 configurationOrCustomizationError (506),  
 congestionX733 (507),  
 corruptData (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),  
responseTimeExcessive (542),  
retransmissionRateExcessive (543),  
softwareErrorX733 (544),  
softwareProgramAbnormallyTerminated (545),  
softwareProgramError (546),  
storageCapacityProblemX733 (547),  
temperatureUnacceptable (548),  
thresholdCrossed (549),  
timingProblemX733 (550),  
toxicLeakDetected (551),  
transmitFailureX733 (552),  
transmitterFailure (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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/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.

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"

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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 SysAppInstallPkgEntry  
MAX-ACCESS not-accessible  
STATUS current  
DESCRIPTION  
"The logical row describing an installed application  
package."  
INDEX { sysAppInstallPkgIndex }  
::= { sysAppInstallPkgTable 1 }

SysAppInstallPkgEntry ::= SEQUENCE {  
sysAppInstallPkgIndex Unsigned32,  
sysAppInstallPkgManufacturer Utf8String,  
sysAppInstallPkgProductName Utf8String,  
sysAppInstallPkgVersion Utf8String,  
sysAppInstallPkgSerialNumber Utf8String,  
sysAppInstallPkgDate DateAndTime,  
sysAppInstallPkgLocation LongUtf8String  
}

sysAppInstallPkgIndex OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppInstallPkgIndex value must not be re-used  
until the next agent entity restart in the event the  
installed application entry is deleted."

::= { sysAppInstallPkgEntry 1 }

sysAppInstallPkgManufacturer OBJECT-TYPE

SYNTAX Utf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The Manufacturer of the software application package."  
::= { sysAppInstallPkgEntry 2 }

sysAppInstallPkgProductName 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

}

sysAppInstallElmtIndex OBJECT-TYPE  
SYNTAX Unsigned32 (1..'ffffff'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."  
 ::= { sysAppInstallElmtEntry 1 }

sysAppInstallElmtName OBJECT-TYPE  
SYNTAX Utf8String  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The name of this element which is contained in the  
application."  
 ::= { sysAppInstallElmtEntry 2 }

sysAppInstallElmtType 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."  
 ::= { sysAppInstallElmtEntry 3 }

sysAppInstallElmtDate OBJECT-TYPE  
SYNTAX DateAndTime  
MAX-ACCESS read-only  
STATUS current  
DESCRIPTION  
"The date and time that this component was installed on  
the system."  
 ::= { sysAppInstallElmtEntry 4 }

sysAppInstallElmtPath 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."

::= { sysAppInstallElmtEntry 5 }

sysAppInstallElmtSizeHigh 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."

::= { sysAppInstallElmtEntry 6 }

sysAppInstallElmtSizeLow 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."

::= { sysAppInstallElmtEntry 7 }

sysAppInstallElmtRole 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.

sysAppInstallElmtRole is used by the agent implementation in determining the initiation of an application, the current state of a running application (see sysAppRunCurrentState), when an application invocation is no longer running, and the exit status of a terminated application invocation (see sysAppIPastRunExitState)."

```
DEFVAL { { unknown } }
```

```
::= { sysAppInstallElmtEntry 8 }
```

sysAppInstallElmtModifyDate OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The date and time that this element was last modified.

Modification of the sysAppInstallElmtRole 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<sup>32</sup> 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<sup>32</sup> 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..'ffffff'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 by  
-- 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..'ffffff'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.

sysAppElmtRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtRunEntry

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 sysAppElmtRunInstallPkg, sysAppElmtRunInvocID, and sysAppElmtRunIndex to facilitate the retrieval of all running elements of a particular invoked application which has been installed on the system."

::= { sysAppRun 3 }

sysAppElmtRunEntry OBJECT-TYPE

SYNTAX SysAppElmtRunEntry

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 { sysAppElmtRunInstallPkg, sysAppElmtRunInvocID,  
sysAppElmtRunIndex }

::= { sysAppElmtRunTable 1 }

SysAppElmtRunEntry ::= SEQUENCE {

sysAppElmtRunInstallPkg Unsigned32,

sysAppElmtRunInvocID Unsigned32,

sysAppElmtRunIndex Unsigned32,

sysAppElmtRunInstallID Unsigned32,

```

sysAppElmtRunTimeStarted    DateAndTime,
sysAppElmtRunState         RunState,
sysAppElmtRunName          LongUtf8String,
sysAppElmtRunParameters    Utf8String,
sysAppElmtRunCPU           TimeTicks,
sysAppElmtRunMemory        Gauge32,
sysAppElmtRunNumFiles      Gauge32,
sysAppElmtRunUser          Utf8String
}

```

#### sysAppElmtRunInstallPkg OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 sysAppInstallPkgIndex for the entry in the sysAppInstallPkgTable 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."

::= { sysAppElmtRunEntry 1 }

#### sysAppElmtRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 sysAppRunIndex for the corresponding application invocation in the sysAppRunTable.

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..'ffffff'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..'ffffff'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 }

sysAppElmtRunName 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'."

::= { sysAppElmtRunEntry 7 }

sysAppElmtRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtRunEntry 8 }

sysAppElmtRunCPU 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."

::= { sysAppElmtRunEntry 9 }

sysAppElmtRunMemory 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."

::= { sysAppElmtRunEntry 10 }

sysAppElmtRunNumFiles 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."

::= { sysAppElmtRunEntry 11 }

sysAppElmtRunUser OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The process owner's login name (e.g. root)."

::= { sysAppElmtRunEntry 12 }

-- sysAppElmtPastRunTable

-- The sysAppElmtPastRunTable 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 sysAppElmtRunTable 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 sysAppElmtRunTable contains an entry for  
-- every process currently executing on the system, the  
-- sysAppElmtPastRunTable 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 sysAppElmtPastRunMaxRows, or  
-- when an entry has aged to exceed a time limit as set by  
-- sysAppElmtPastRunTblTimeLimit. When aging out entries,  
-- the oldest entry, as determined by the value of  
-- sysAppElmtPastRunTimeEnded, will be removed first.

--

-- The table is indexed by sysAppInstallPkgIndex (from the  
-- sysAppInstallPkgTable), sysAppElmtPastRunInvocID, and  
-- sysAppElmtPastRunIndex to make it easy to locate all  
-- previously executed processes of a particular invoked application  
-- that has been installed on the system.

sysAppElmtPastRunTable OBJECT-TYPE

SYNTAX SEQUENCE OF SysAppElmtPastRunEntry

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 sysAppElmtRun 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 sysAppElmtPastRunMaxRows, or when an entry has aged to exceed a time limit as set by sysAppElmtPastRunTblTimeLimit. When aging out entries, the oldest entry, as determined by the value of sysAppElmtPastRunTimeEnded, will be removed first.

The table is indexed by sysAppInstallPkgIndex (from the sysAppInstallPkgTable), sysAppElmtPastRunInvocID, and sysAppElmtPastRunIndex to make it easy to locate all previously executed processes of a particular invoked application that has been installed on the system."

::= { sysAppRun 4 }

sysAppElmtPastRunEntry OBJECT-TYPE

SYNTAX SysAppElmtPastRunEntry

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 sysAppElmtRunTable when the process terminates. Hence, the entry's value for sysAppElmtPastRunIndex is the same as its value was for sysAppElmtRunIndex. Note carefully: only those processes which could be associated with an identified application are included in this table."

INDEX { sysAppInstallPkgIndex, sysAppElmtPastRunInvocID,  
sysAppElmtPastRunIndex }

::= { sysAppElmtPastRunTable 1 }

SysAppElmtPastRunEntry ::= SEQUENCE {

sysAppElmtPastRunInvocID Unsigned32,

```

sysAppElmtPastRunIndex      Unsigned32,
sysAppElmtPastRunInstallID  Unsigned32,
sysAppElmtPastRunTimeStarted DateAndTime,
sysAppElmtPastRunTimeEnded  DateAndTime,
sysAppElmtPastRunName       LongUtf8String,
sysAppElmtPastRunParameters Utf8String,
sysAppElmtPastRunCPU         TimeTicks,
sysAppElmtPastRunMemory     Unsigned32,
sysAppElmtPastRunNumFiles   Unsigned32,
sysAppElmtPastRunUser       Utf8String
}

```

#### sysAppElmtPastRunInvocID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppRunIndex for the corresponding application invocation in the sysAppRunTable. If the invoked application as a whole has terminated, it will be the same as the sysAppPastRunIndex."

::= { sysAppElmtPastRunEntry 1 }

#### sysAppElmtPastRunIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 sysAppElmtRunIndex which was removed from the sysAppElmtRunTable and moved to this table when the element terminated.

Note: entries in this table are indexed by sysAppElmtPastRunInvocID, sysAppElmtPastRunIndex.

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 - sysAppElmtPastRunTable Entry Collisions' for the conditions that would have to occur in order for a collision to occur."

```
::= { sysAppElmtPastRunEntry 2 }
```

#### sysAppElmtPastRunInstallID OBJECT-TYPE

SYNTAX Unsigned32 (1..'ffffff'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 sysAppInstallElmtIndex for the application element of which this entry represents a previously executed process."

```
::= { sysAppElmtPastRunEntry 3 }
```

#### sysAppElmtPastRunTimeStarted OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The time the process was started."

```
::= { sysAppElmtPastRunEntry 4 }
```

#### sysAppElmtPastRunTimeEnded OBJECT-TYPE

SYNTAX DateAndTime

MAX-ACCESS read-only

STATUS current

#### DESCRIPTION

"The time the process ended."

```
::= { sysAppElmtPastRunEntry 5 }
```

#### sysAppElmtPastRunName 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'."

```
::= { sysAppElmtPastRunEntry 6 }
```

sysAppElmtPastRunParameters OBJECT-TYPE

SYNTAX Utf8String

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The starting parameters for the process."

::= { sysAppElmtPastRunEntry 7 }

sysAppElmtPastRunCPU 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."

::= { sysAppElmtPastRunEntry 8 }

sysAppElmtPastRunMemory OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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."

::= { sysAppElmtPastRunEntry 9 }

sysAppElmtPastRunNumFiles OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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."

::= { sysAppElmtPastRunEntry 10 }

sysAppElmtPastRunUser 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..'ffffff'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..'ffffff'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..'ffffff'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 be 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..'ffffff'h)

UNITS "seconds"  
MAX-ACCESS read-write  
STATUS current  
DESCRIPTION

"The maximum time in seconds which an entry in the sysAppElemPastRunTable 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 sysAppElemPastRunMaxRows."

DEFVAL { 7200 }  
::= { sysAppRun 10 }

sysAppAgentPollInterval OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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 }  
::= { sysAppRun 11 }

-- sysAppMap Group  
-- This group contains a table, the sysAppMapTable,  
-- whose sole purpose is to provide a 'backwards'  
-- mapping so that, given a known sysAppElmtRunIndex  
-- (process identification number), the corresponding invoked  
-- application (sysAppRunIndex), installed element  
-- (sysAppInstallElmtIndex), and installed application  
-- package (sysAppInstallPkgIndex) 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

sysAppElmtRunIndex, 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 (sysAppElmtRunIndex) 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 { sysAppElmtRunIndex, sysAppElmtRunInvocID, sysApplMapInstallElmtIndex }

::= { sysApplMapTable 1 }

SysApplMapEntry ::= SEQUENCE {

sysApplMapInstallElmtIndex Unsigned32,

sysApplMapInstallPkgIndex Unsigned32

}

sysApplMapInstallElmtIndex OBJECT-TYPE

SYNTAX Unsigned32 (0..'ffffff'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..'ffffff'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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SYSAPPL-
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"
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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 \*\*\*

SnmEngineID ::= 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' 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))

**SnmSecurityModel ::= 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:

$\text{enterpriseID} * 256 + \text{security model within enterprise}$

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)

SnmMessageProcessingModel ::= 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)

SnmSecurityLevel ::= 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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMP-FRAMEWORK-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"

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#### DESCRIPTION

"The MIB module for SNMP entities.

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"

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SNMPv2-

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

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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),  
rectifierLowFVVoltage (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),  
lowTemperature (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),  
    lossOfRealTime (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),  
    underlyingResourceUnavailable (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),  
applicationSubsystemFailure (501),  
bandwidthReducedX733 (502),  
callEstablishmentError (503),  
communicationsProtocolError (504),  
communicationsSubsystemFailure (505),  
configurationOrCustomizationError (506),  
congestionX733 (507),  
corruptData (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),  
responseTimeExcessive (542),  
retransmissionRateExcessive (543),  
softwareErrorX733 (544),  
softwareProgramAbnormallyTerminated (545),  
softwareProgramError (546),  
storageCapacityProblemX733 (547),  
temperatureUnacceptable (548),  
thresholdCrossed (549),  
timingProblemX733 (550),  
toxicLeakDetected (551),  
transmitFailureX733 (552),  
transmitterFailure (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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/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.

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"  
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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 HIHostControlEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"A conceptual row in the hlHostControlTable.

An example of the indexing of this entry is

```
hlHostControlNIDroppedFrames.1"
```

```
INDEX { hlHostControlIndex }
```

```
::= { hlHostControlTable 1 }
```

```
HIHostControlEntry ::= SEQUENCE {
```

```
hlHostControlIndex Integer32,
```

```
hlHostControlDataSource DataSource,
```

```
hlHostControlNIDroppedFrames Counter32,
```

```
hlHostControlNIInserts Counter32,
```

```
hlHostControlNIDeletes Counter32,
```

```
hlHostControlNIMaxDesiredEntries Integer32,
```

```
hlHostControlAIDroppedFrames Counter32,
```

```
hlHostControlAIInserts Counter32,
```

```
hlHostControlAIDeletes Counter32,
```

```
hlHostControlAIMaxDesiredEntries 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 }

#### hlHostControlNIDroppedFrames 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 }

#### hlHostControlNIInserts 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 hlHostControlNIDeletes from hlHostControlNIInserts."

::= { hlHostControlEntry 4 }

#### hlHostControlNIDeletes 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  
hlHostControlNIDeletes from hlHostControlNIInserts."

::= { hlHostControlEntry 5 }

#### hlHostControlNIMaxDesiredEntries 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 }

#### hlHostControlAIDroppedFrames 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 }

#### hlHostControlAllInserts 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 hlHostControlAllDeletes from hlHostControlAllInserts."

::= { hlHostControlEntry 8 }

#### hlHostControlAllDeletes 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  
hlHostControlAIDeletes from hlHostControlAllInserts."

::= { hlHostControlEntry 9 }

hlHostControlAIMaxDesiredEntries 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 hIHostControlEntry.

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."

::= { hIHostControlEntry 12 }

#### nlHostTable OBJECT-TYPE

SYNTAX SEQUENCE OF NIHostEntry

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 NIHostEntry

MAX-ACCESS not-accessible

STATUS current

#### DESCRIPTION

"A conceptual row in the nlHostTable.

The hIHostControlIndex value in the index identifies the hIHostControlEntry 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."

::= { nIHostEntry 6 }

nIHostOutMacNonUnicastPkts 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 nIHostTable. 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."

::= { nIHostEntry 7 }

nIHostCreateTime 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."

::= { nIHostEntry 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 hIMatrixControlTable also has objects that control optional aIMatrixTables, implementation of the aIMatrixTables is not required to fully implement this group.

hIMatrixControlTable OBJECT-TYPE

SYNTAX SEQUENCE OF HIMatrixControlEntry

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

hlMatrixControlNIDroppedFrames.1"

```
INDEX { hlMatrixControlIndex }
```

```
::= { hlMatrixControlTable 1 }
```

```
HlMatrixControlEntry ::= SEQUENCE {
```

```
    hlMatrixControlIndex      Integer32,
```

```
    hlMatrixControlDataSource DataSource,
```

```
    hlMatrixControlNIDroppedFrames Counter32,
```

```
    hlMatrixControlNIInserts Counter32,
```

```
    hlMatrixControlNIDeletes Counter32,
```

```
    hlMatrixControlNIMaxDesiredEntries Integer32,
```

```
    hlMatrixControlAIDroppedFrames Counter32,
```

```
    hlMatrixControlAIInserts Counter32,
```

```
    hlMatrixControlAIDeletes Counter32,
```

```
    hlMatrixControlAIMaxDesiredEntries 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 }

hlMatrixControlNIDroppedFrames 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 hlMatrixControlNIDeletes from hlMatrixControlNIInserts."

::= { hlMatrixControlEntry 5 }

#### hlMatrixControlNIMaxDesiredEntries 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 }

#### hlMatrixControlAIDroppedFrames 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 }
```

hlMatrixControlAllInserts 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 hlMatrixControlAllDeletes from hlMatrixControlAllInserts."

```
::= { hlMatrixControlEntry 8 }
```

hlMatrixControlAllDeletes 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 hlMatrixControlAIDeletes from hlMatrixControlAIInserts."

::= { hlMatrixControlEntry 9 }

hlMatrixControlAIMaxDesiredEntries 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."

::= { hMatrixControlEntry 11 }

hMatrixControlStatus OBJECT-TYPE

SYNTAX RowStatus  
MAX-ACCESS read-create  
STATUS current  
DESCRIPTION

"The status of this hMatrixControlEntry.

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 nMatrixSDTable, nMatrixDSTable, alMatrixSDTable, and alMatrixDSTable shall be deleted by the agent."

::= { hMatrixControlEntry 12 }

nMatrixSDTable OBJECT-TYPE

SYNTAX SEQUENCE OF NMatrixSDEntry  
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 NIMatrixSDEntry

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 }

NIMatrixSDEntry ::= 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 NIMatrixDSEntry

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 NIMatrixTopNEntry

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 NIMatrixTopNEntry

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 }

NIMatrixTopNEntry ::= 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 }

#### probeDownloadTFTPSTServer 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 probeDownloadTFTPSTServer 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,  
    hlHostControlNIDroppedFrames, hlHostControlNIInserts,  
    hlHostControlNIDeletes,  
    hlHostControlNIMaxDesiredEntries,  
    hlHostControlAIDroppedFrames, hlHostControlAIInserts,  
    hlHostControlAIDeletes,  
    hlHostControlAIMaxDesiredEntries, 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,  
    hlMatrixControlNIDroppedFrames,  
    hlMatrixControlNIInserts, hlMatrixControlNIDeletes,  
    hlMatrixControlNIMaxDesiredEntries,  
    hlMatrixControlAIDroppedFrames,  
    hlMatrixControlAIInserts, hlMatrixControlAIDeletes,  
    hlMatrixControlAIMaxDesiredEntries,  
    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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RMON2-
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"

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## 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 docsDevIcmpModeControl for management and control of the IGMP mode of operation,
- Addition of docsDevMaxCpe for management of the maximum 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,  
docsDevBaseIcmpGroup,  
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 docsDevBaseIcmpGroup

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 docsDevIcmpModeControl

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 }

docsDevBaseIcmpGroup OBJECT-GROUP

OBJECTS {

docsDevIcmpModeControl

}

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/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.

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

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DESCRIPTION

"This is the MIB Module for DOCSIS 2.0-compliant Radio  
Frequency (RF) interfaces in Cable Modems and  
Cable Modem Termination Systems.

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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 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,
    docsIfSigQUnerrored      Counter32,
    docsIfSigQCorrected      Counter32,
    docsIfSigQUncorrectables Counter32,
    docsIfSigQSignalNoise    TenthdB,
    docsIfSigQMicroreflections Integer32,
    docsIfSigQEqualizationData DocsEqualizerData,
    docsIfSigQExtUnerrored   Counter64,
    docsIfSigQExtCorrected   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 }

docsIfSigQUnerrored 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 }

## docsIfSigQExtUnerrored 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 docsIfSigQUnerrored.

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 '40H.'"

```
::= { 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,
docsIfCmStatusRangingAborted    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 }

docsIfCmStatusRangingAborted 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,
    docsIfCmtsStatusRangingAbortedds    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 }

#### docsIfCmtsStatusRangingAborted 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,  
docsIfCmtsCmStatusExtUnerrored 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 "TenthdBmV"

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

registeredBPPIinitializing(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.

registeredBPPIinitializing(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 }

docsIfCmtsCmStatusUnerrored 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 }

## docsIfCmtsCmStatusExtUnerrored 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 SCDDMA 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..86200000)

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,  
docsIfSigQUnerrored,  
docsIfSigQCorrected,  
docsIfSigQUncorrectable,  
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,
docsIfCmStatusRangingAborted,
docsIfCmServiceQosProfile,
docsIfCmServiceTxSlotsImmed,
docsIfCmServiceTxSlotsDed,
docsIfCmServiceTxRetries,
docsIfCmServiceTxExceeds,
docsIfCmServiceRqRetries,
docsIfCmServiceRqExceeds
}
STATUS deprecated

```

#### DESCRIPTION

"Group of objects implemented in cable modems."  
 ::= { docsIfGroups 2 }

#### docsIfCmtsGroup OBJECT-GROUP

```

OBJECTS {
docsIfCmtsCapabilities,
docsIfCmtsSyncInterval,
docsIfCmtsUcdInterval,
docsIfCmtsMaxServiceIds,
docsIfCmtsInvitedRangingAttempts,
docsIfCmtsInsertInterval,
docsIfCmtsStatusInvalidRangeReqs,
docsIfCmtsStatusRangingAborted,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,

```

```

docsIfCmtsCmStatusIpAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,
docsIfCmtsCmStatusValue,
docsIfCmtsCmStatusUnerrored,
docsIfCmtsCmStatusCorrected,
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,
docsIfSigQUnerrored,
docsIfSigQCorrected,
```

```

docsIfSigQUncorrectables,
docsIfSigQSignalNoise,
docsIfSigQMicroreflections,
docsIfSigQExtUnerrored,
docsIfSigQExtCorrected,
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,
docsIfCmStatusInvalidUcids,
docsIfCmStatusInvalidRangingResponses,
docsIfCmStatusInvalidRegistrationResponses,
docsIfCmStatusT1Timeouts,
docsIfCmStatusT2Timeouts,
docsIfCmStatusT3Timeouts,
docsIfCmStatusT4Timeouts,
docsIfCmStatusRangingAborted,
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,
docsIfCmtsStatusRangingAborted,
docsIfCmtsStatusInvalidRegReqs,
docsIfCmtsStatusFailedRegReqs,
docsIfCmtsStatusInvalidDataReqs,
docsIfCmtsStatusT5Timeouts,
docsIfCmtsCmStatusMacAddress,
docsIfCmtsCmStatusDownChannelIfIndex,
docsIfCmtsCmStatusUpChannelIfIndex,
docsIfCmtsCmStatusRxPower,
docsIfCmtsCmStatusTimingOffset,
docsIfCmtsCmStatusEqualizationData,
docsIfCmtsCmStatusValue,
docsIfCmtsCmStatusUnerrored,
docsIfCmtsCmStatusCorrected,
docsIfCmtsCmStatusUncorrectable,
docsIfCmtsCmStatusSignalNoise,
docsIfCmtsCmStatusMicroreflections,
docsIfCmtsCmStatusExtUnerrored,
docsIfCmtsCmStatusExtCorrected,

docsIfCmtsCmStatusExtUncorrectable,
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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DOCS-IF-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,
InetAddressType

```

FROM INET-ADDRESS-MIB -- [RFC4001]  
TEXTUAL-CONVENTION,  
RowStatus,  
TruthValue  
FROM SNMPv2-TC -- [RFC2579]

OBJECT-GROUP,  
MODULE-COMPLIANCE  
FROM SNMPv2-CONF -- [RFC2580]  
SnmAdminString  
FROM SNMP-FRAMEWORK-MIB -- [RFC3411]  
ifIndex  
FROM IF-MIB -- [RFC2863]  
Dscp  
FROM DIFFSERV-DSCP-TC; -- [RFC3289]

pkcIetfSigMib MODULE-IDENTITY

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#### 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.

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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)
}
```

PktnRingCadence ::= 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 }

pkcSigDevR0Cadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
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."  
 ::= { pkcSigDevObjects 5 }

pkcSigDevR1Cadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
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."  
 ::= { pkcSigDevObjects 6 }

pkcSigDevR2Cadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
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."  
 ::= { pkcSigDevObjects 7 }

pkcSigDevR3Cadence OBJECT-TYPE  
SYNTAX PkcRingCadence  
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 PkctRingCadence  
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 PkctRingCadence  
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 PkctRingCadence  
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 PkctRingCadence  
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 }

pkcSigDefMediaStreamDscp 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 }  
 ::= { pkcSigDevObjects 16 }

--  
 -- pkcSigCapabilityTable - This table defines the valid signaling types supported by this MTA.  
 --

pkcSigCapabilityTable OBJECT-TYPE  
 SYNTAX SEQUENCE OF PkcSigCapabilityEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 " This table describes the signaling types supported by this MTA."  
 ::= { pkcSigDevObjects 17 }

pkcSigCapabilityEntry OBJECT-TYPE  
 SYNTAX PkcSigCapabilityEntry  
 MAX-ACCESS not-accessible  
 STATUS current  
 DESCRIPTION  
 " Entries in pkcMtaDevSigCapabilityTable - 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 }

pkcSigDevVmwiMode 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),  
pkcSigDevVmwiMode 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 }  
 ::= { pkcSigDevObjects 27 }
```

pkcSigDevVmwiAfterDTAS 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 <code>pktcSigDevVmwiMode</code>	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 {

```
pkcSigDevRingCadenceIndex Unsigned32,  
pkcSigDevRingCadence PkcRingCadence  
}
```

pkcSigDevRingCadenceIndex 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."

::= { pkcSigDevRingCadenceEntry 1 }

pkcSigDevRingCadence OBJECT-TYPE

SYNTAX PkcRingCadence

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is the Ring Cadence."

::= { pkcSigDevRingCadenceEntry 2 }

pkcSigDevToneTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigDevToneEntry

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 pkcSigEndPntConfigCallWaitingDelay and pkcSigEndPntConfigCallWaitingMaxRep. If the pkcSigDevToneType 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 PkctSigDevToneEntry

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 `pkcSigDevCidSigProtocol` 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 }

::= { pkcSigDevObjects 35 }

## pkcSigDevCidDtmfEndCode OBJECT-TYPE

SYNTAX DtmfCode

MAX-ACCESS read-write

STATUS current

## DESCRIPTION

"This object identifies optional end codes used when the `pkcSigDevCidSigProtocol` 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 PkctSubscriberSideSigProtocol

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 }

pkcSigDevrpAsDtsDuration 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 pkcSigDevCidMode is set to a value of 'rpAsETS'.

The following table defines the default values for this MIB object, depending on the signal type (pkcSigDevCidMode), and MUST be followed:

Value of pkcSigDevCidMode	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 pkcSigDevCidMode 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 }

::= {pkcSigDevObjects 41 }

--

-- The Endpoint Config Table is used to define attributes that  
-- are specific to connection EndPoints.

--

pkcSigEndPntConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF PkcSigEndPntConfigEntry

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,

pktcSigEndPntConfigTSMMax Unsigned32,  
pktcSigEndPntConfigMax1 Unsigned32,  
pktcSigEndPntConfigMax2 Unsigned32,  
pktcSigEndPntConfigMax1QEnable TruthValue,  
pktcSigEndPntConfigMax2QEnable TruthValue,  
pktcSigEndPntConfigMWD Unsigned32,  
pktcSigEndPntConfigTdinit Unsigned32,

```

pktcSigEndPntConfigTadmin      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 }

pktcSigEndPntConfigTSMMax 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 }

pkcSigEndPntStatusCallIpAddress 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 'pkcSigEndPntConfigCallAgentId'. 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 pkcSigEndPntStatusCallIpAddressType."

REFERENCE

"PacketCable NCS Specification;  
PacketCable Security specification, [PKT-SP-SEC]."

::= { pkcSigEndPntConfigEntry 30 }

pkcSigEndPntStatusError 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 pkcMtaDevCmsIpsecCtrl is enabled for the associated call agent, the noSecurityAssociation status indicates that no Security Association (SA) yet exists for this endpoint. If pkcMtaDevCmsIpsecCtrl 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 pkcMtaDevCmsIpsecCtrl 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,
```

```
pkteSigDefMediaStreamDscp,  
pkteSigDevVmwiMode,  
pkteSigCapabilityType,  
pkteSigCapabilityVersion,  
pkteSigCapabilityVendorExt,  
pkteSigDefNcsReceiveUdpPort  
}
```

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration information that is applicable per-device."

::= { pkteSigGroups 1 }

pkteSigEndpointGroup OBJECT-GROUP

OBJECTS {

```
pkteSigEndPntConfigCallAgentId,  
pkteSigEndPntConfigCallAgentUdpPort,  
pkteSigEndPntConfigPartialDialTO,  
pkteSigEndPntConfigCriticalDialTO,  
pkteSigEndPntConfigBusyToneTO,  
pkteSigEndPntConfigDialToneTO,  
pkteSigEndPntConfigMessageWaitingTO,  
pkteSigEndPntConfigOffHookWarnToneTO,  
pkteSigEndPntConfigRingingTO,  
pkteSigEndPntConfigRingBackTO,  
pkteSigEndPntConfigReorderToneTO,  
pkteSigEndPntConfigStutterDialToneTO,  
pkteSigEndPntConfigTSMMax,  
pkteSigEndPntConfigMax1,  
pkteSigEndPntConfigMax2,  
pkteSigEndPntConfigMax1QEnable,  
pkteSigEndPntConfigMax2QEnable,  
pkteSigEndPntConfigMWD,  
pkteSigEndPntConfigTdinit,  
pkteSigEndPntConfigTdmin,  
pkteSigEndPntConfigTdmax,  
pkteSigEndPntConfigRtoMax,  
pkteSigEndPntConfigRtoInit,  
pkteSigEndPntConfigLongDurationKeepAlive,  
pkteSigEndPntConfigThist,  
pkteSigEndPntConfigStatus,
```

```
pkteSigEndPntConfigCallWaitingMaxRep,  
pkteSigEndPntConfigCallWaitingDelay,  
pkteSigEndPntStatusCallIpAddressType,  
pkteSigEndPntStatusCallIpAddress,
```

pkcSigEndPntStatusError

}

STATUS current

DESCRIPTION

"Group of MIB objects containing signaling configuration information that is applicable per-endpoint."

::= { pkcSigGroups 2 }

pkcInternationalGroup OBJECT-GROUP

OBJECTS {

pkcSigEndPntConfigMinHookFlash,

pkcSigEndPntConfigMaxHookFlash,

pkcSigEndPntConfigPulseDialInterdigitTime,

pkcSigEndPntConfigPulseDialMinMakeTime,

pkcSigEndPntConfigPulseDialMaxMakeTime,

pkcSigEndPntConfigPulseDialMinBreakTime,

pkcSigEndPntConfigPulseDialMaxBreakTime,

pkcSigDevRingCadence,

pkcSigDevCidSigProtocol,

pkcSigDevCidDelayAfterLR,

pkcSigDevCidDtmfStartCode,

pkcSigDevCidDtmfEndCode,

pkcSigDevVmwiSigProtocol,

pkcSigDevVmwiDelayAfterLR,

pkcSigDevVmwiDtmfStartCode,

pkcSigDevVmwiDtmfEndCode,

pkcSigDevvpAsDtsDuration,

pkcSigDevCidMode,

pkcSigDevCidAfterRing,

pkcSigDevCidAfterDTAS,

pkcSigDevCidAfterRPAS,

pkcSigDevRingAfterCID,

pkcSigDevCidDTASAfterLR,

pkcSigDevVmwiMode,

pkcSigDevVmwiAfterDTAS,

pkcSigDevVmwiAfterRPAS,

pkcSigDevVmwiDTASAfterLR,

pkcSigPowerRingFrequency,

pkcSigPulseSignalFrequency,

pkcSigPulseSignalDbLevel,

pkcSigPulseSignalDuration,

pkcSigPulseSignalPulseInterval,

pkcSigPulseSignalRepeatCount,

pkcSigDevToneDbLevel,

pkcSigDevToneFreqCounter,

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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibbl-commercial-mibs-2-9-3-jar/mibs/ietf/PKTC-IETF-SIG-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 dlsWTCPODomain, 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 dlswnodeState is in the active state, the time the dlswnodeState entered the active state. It will remain zero if dlswnodeState 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 dlswnodeDirNBTable 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 dlswnodeDirMacTable 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

-----

dlswnodeTConnStat OBJECT IDENTIFIER ::= { dlswnodeTConn 1 }

dlswnodeTConnStatActiveConnections OBJECT-TYPE

SYNTAX Gauge32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"The number of transport connections that are not in `disconnected' state."

::= { dlswnodeTConnStat 1 }

dlswnodeTConnStatCloseIdles 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 { 'AA0000000000000000000000000000'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."  
 ::= { dlsWConnConfigEntry 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, dlsWConnOperEntryTime
  - needs to be consulted for the possibility of counter reset.
- 

dlsWConnOperTable OBJECT-TYPE

SYNTAX SEQUENCE OF DlsWConnOperEntry

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."

::= { dlsWConn 3 }

dlsWConnOperEntry OBJECT-TYPE

SYNTAX DlsWConnOperEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

""

INDEX { dlsWConnOperTDomain, dlsWConnOperRemoteTAddr }

::= { dlsWConnOperTable 1 }

DlsWConnOperEntry ::= SEQUENCE {

dlsWConnOperTDomain OBJECT IDENTIFIER,

dlsWConnOperLocalTAddr TAddress,

dlsWConnOperRemoteTAddr TAddress,

dlsWConnOperEntryTime TimeTicks,

dlsWConnOperConnectTime TimeTicks,

dlsWConnOperState INTEGER,

dlsWConnOperConfigIndex INTEGER,

dlsWConnOperFlowCntlMode INTEGER,

dlsWConnOperPartnerVersion 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 dlswTConnOperEntry 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 dlsWTConnOperEntry 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 dlsWTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 dlswTConnOperEntry 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 { 'AA00000000000000000000000000000000'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,

```

```
dlsDirMacMac      MacAddressNC,  
dlsDirMacMask     MacAddressNC,  
dlsDirMacEntryType  INTEGER,  
dlsDirMacLocationType  INTEGER,  
dlsDirMacLocation   RowPointer,  
dlsDirMacStatus     INTEGER,  
dlsDirMacLFSize     LFSize,  
dlsDirMacRowStatus  RowStatus  
}
```

```
dlsDirMacIndex OBJECT-TYPE  
SYNTAX  INTEGER (0..2147483647)  
MAX-ACCESS not-accessible  
STATUS  current  
DESCRIPTION  
    "Uniquely identifies a conceptual row of this table."  
 ::= { dlsDirMacEntry 1 }
```

```
dlsDirMacMac OBJECT-TYPE  
SYNTAX  MacAddressNC  
MAX-ACCESS read-create  
STATUS  current  
DESCRIPTION  
    "The MAC address, together with the dlsDirMacMask,  
    specifies a set of MAC addresses that are defined or  
    discovered through an interface or partner DLSw nodes."  
 ::= { dlsDirMacEntry 2 }
```

```
dlsDirMacMask OBJECT-TYPE  
SYNTAX  MacAddressNC  
MAX-ACCESS read-create  
STATUS  current  
DESCRIPTION  
    "The MAC address mask, together with the dlsDirMacMac,  
    specifies a set of MAC addresses that are defined or  
    discovered through an interface or partner DLSw nodes."  
DEFVAL { 'FFFFFFFFFFFF'H }  
 ::= { dlsDirMacEntry 3 }
```

```
dlsDirMacEntryType 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
--

```

```

-- .....

```

**dlsDirNBTable OBJECT-TYPE**

SYNTAX SEQUENCE OF DlsDirNBEntry

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."

::= { dlsDirCache 2 }

**dlsDirNBEntry OBJECT-TYPE**

SYNTAX DlsDirNBEntry

MAX-ACCESS not-accessible

STATUS current

**DESCRIPTION**

"Indexed by dlsDirNBIndex."

INDEX { dlsDirNBIndex }

::= { dlsDirNBTable 1 }

DlsDirNBEntry ::= SEQUENCE {

dlsDirNBIndex INTEGER,

dlsDirNBName NBName,

dlsDirNBNameType INTEGER,

dlsDirNBEntryType INTEGER,

dlsDirNBLocationType INTEGER,

dlsDirNBLocation RowPointer,

dlsDirNBStatus INTEGER,

dlsDirNBLFSize LFSize,

dlsDirNBRowStatus RowStatus

}

**dlsDirNBIndex 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 }

::= { dlsDirNBEntry 4 }

dlsDirNBLocationType 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 partner DLSw node (or a set of partner DLSw nodes)."

DEFVAL { local }

::= { dlsDirNBEntry 5 }

dlsDirNBLocation 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 }

::= { dlsDirNBEntry 6 }

dlsDirNBStatus 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 }

dlsDirLocateMacEntry OBJECT-TYPE

SYNTAX DlsDirLocateMacEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"Indexed by dlsDirLocateMacMac and dlsDirLocateMacMatch.

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 { dlsDirLocateMacMac, dlsDirLocateMacMatch }

::= { dlsDirLocateMacTable 1 }

DlsDirLocateMacEntry ::= SEQUENCE {

dlsDirLocateMacMac MacAddressNC,

dlsDirLocateMacMatch INTEGER,

dlsDirLocateMacLocation RowPointer

}

dlsDirLocateMacMac OBJECT-TYPE

SYNTAX MacAddressNC

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The MAC address to be located."

::= { dlsDirLocateMacEntry 1 }

dlsDirLocateMacMatch OBJECT-TYPE

SYNTAX INTEGER (1..255)

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"The order of the entries of dlsDirMacTable  
that match dlsDirLocateMacMac. 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."

::= { dlsDirLocateMacEntry 2 }

dlsDirLocateMacLocation OBJECT-TYPE

SYNTAX RowPointer

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Points to the dlsDirMacEntry."

::= { dlsDirLocateMacEntry 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 entries in the Circuit Table		Origin End Station Location		
		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,

```

dlsuCircuitFCSendGrantedUnits INTEGER,
dlsuCircuitFCSendCurrentWndw INTEGER,
dlsuCircuitFCRecvGrantedUnits INTEGER,
dlsuCircuitFCRecvCurrentWndw INTEGER,
dlsuCircuitFCLargestRecvGranted Gauge32,
dlsuCircuitFCLargestSendGranted Gauge32,
dlsuCircuitFCHalveWndwSents Counter32,
dlsuCircuitFCResetOpSents Counter32,
dlsuCircuitFCHalveWndwRcvds Counter32,
dlsuCircuitFCResetOpRcvds Counter32,
dlsuCircuitDiscReasonLocal INTEGER,
dlsuCircuitDiscReasonRemote INTEGER,
dlsuCircuitDiscReasonRemoteData OCTET STRING
}

-- .....
-- Information related to the End Station 1 (S1).
-- .....

dlsuCircuitS1Mac OBJECT-TYPE
SYNTAX MacAddressNC
MAX-ACCESS not-accessible
STATUS current
DESCRIPTION
    "The MAC Address of End Station 1 (S1) used for this circuit."
 ::= { dlsuCircuitEntry 1 }

dlsuCircuitS1Sap 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."
 ::= { dlsuCircuitEntry 2 }

dlsuCircuitS1IfIndex 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."
 ::= { dlsuCircuitEntry 3 }

dlsuCircuitS1DlcType 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 }

dlsuCircuitS2Sap 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."  
 ::= { dlsuCircuitEntry 9 }

dlsuCircuitS2Location 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."  
 ::= { dlsuCircuitEntry 10 }

dlsuCircuitS2TDomain 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."  
 ::= { dlsuCircuitEntry 11 }

dlsuCircuitS2TAddress 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."  
 ::= { dlsuCircuitEntry 12 }

dlsuCircuitS2CircuitId 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.
-- .....
dlsuCircuitFCSendGrantedUnits 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."

```
::= { dlsuCircuitEntry 19 }
```

```
dlsuCircuitFCSendCurrentWndw 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."

```
::= { dlsuCircuitEntry 20 }
```

```
dlsuCircuitFCRecvGrantedUnits 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."

```
::= { dlsuCircuitEntry 21 }
```

dlsuCircuitFCRecvCurrentWndw 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."

::= { dlsuCircuitEntry 22 }

dlsuCircuitFCLargestRecvGranted 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."

::= { dlsuCircuitEntry 23 }

dlsuCircuitFCLargestSendGranted 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."

::= { dlsuCircuitEntry 24 }

dlsuCircuitFCHalveWndwSents 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),
haltDIRcvd              (5),
haltDINoAckRcvd        (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

-- .....

dlsDirCompliance MODULE-COMPLIANCE

STATUS current

DESCRIPTION

"Compliance for DLSw nodes that provide a directory function."

MODULE

MANDATORY-GROUPS {  
    dlsDirGroup }

GROUP dlsDirNBGroup

DESCRIPTION

"The DLSw NetBIOS group is mandatory only for those DLSw entities that implement NetBIOS."

OBJECT dlsDirMacMac

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacMask

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacEntryType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacLocationType

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacLocation

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacStatus

MIN-ACCESS read-only

DESCRIPTION

"Write access is not required."

OBJECT dlsDirMacLFSsize

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DLSW-MIB

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

```
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 invalidating the corresponding entry in the atTable object. That is, it effectively disassociates 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 datagrams 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 disassociates 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 disassociates 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 }

snmpOutTooBig 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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/RFC1213-  
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."

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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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/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 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 mioPeerEncTable 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 result 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 { mioPeerIndex, mioPeerEncIndex }

::= { mioPeerEncTable 1 }

MioPeerEncEntry ::= SEQUENCE {

    mioPeerEncIndex

        PositiveInteger,

    mioPeerEncType

        INTEGER

}

mioPeerEncIndex     OBJECT-TYPE

    SYNTAX PositiveInteger

    ACCESS read-only

    STATUS mandatory

    DESCRIPTION

        "The second index in the table which distinguishes different encapsulation types."

    ::= { mioPeerEncEntry 1 }

mioPeerEncType 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 mioPeerStatus object with the same mioPeerIndex 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 mioPeerEncTable with the same mioPeerIndex and with an mioPeerEncIndex higher than the deleted entry, will all have their mioPeerEncIndex values decremented by one."

```
::= { mioxPeerEncEntry 2 }
```

```
-- #####
```

END

Found in path(s):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/MIOX25-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  
SnmAdminString  
    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: stjohs@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  $y = g^{xa} \text{ MOD } p$ , and where g is the base from usmDHPParameters, p is the prime from usmDHPParameters, and xa is a new random integer selected by the agent in the interval  $2^{(l-1)} \leq xa < 2^l < p-1$ . 'l' is the optional privateValueLength from usmDHPParameters in bits. If 'l' is omitted, then xa (and xr below) is selected in the interval  $0 \leq xa < p-1$ . y 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  $PV1 < 0$ .

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  $z = g^{xr} \text{ MOD } p$ , where g, p and l are as above, and where xr is a new random integer selected by the manager in the interval  $2^{(l-1)} \leq xr < 2^l < p-1$ . 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  $sk = z^{xa} \text{ MOD } p$ , and at the manager as  $sk = y^{xr} \text{ MOD } p$ .

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 DHPParameter per PKCS #3, section 9. E.g.

```
DHPParameter ::= 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 usmDhKeyChangeTable) 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  $g^r \text{ MOD } p$  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  $2^{(l-1)} \leq r < p-1 < 2^l$ . If  $l$  is unspecified, then  $r$  is a random integer selected in the interval  $0 \leq r < p-1$

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  $PV_1, \dots, PV_k$  are the octets of PV from first to last, and where  $PV_1 \neq 0$ .

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  $y = g^r \text{ mod } p$  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  $sk = mgrPublic^r \text{ mod } p$  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 iteration 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 Schneier - 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 usmDHPParameters

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 {
    usmDHPParameters
}
```

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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/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.

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

SnmAdminString 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"

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"

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 the 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  $\text{Interval} * (\text{NumReports} + 1)$  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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/APM-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](mailto: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  
dls(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  
traspHdlc (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 synchronous 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 Communications  
 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  
 propBWApt2Mp (184), -- PropBroadbandWirelessAccesspt2multip  
     -- 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 Symmetrical PON interface  
pon622 (208), -- FSAN622Mb Symmetrical 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  
Imp (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/OBSOLETE - 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
}

```

IANA\_tunnelType ::= 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 IANA\_tunnelType values is identical to the policy for assigning IANA\_ifType 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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-
jar/mibs/iana/IANAifType-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
```

SnmAdminString

```
    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"

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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         SipTCEntityTypeRole
}

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 StpTCMethodName

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)."

```

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):

```
* /opt/cola/permits/1114224826_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/SIP-
COMMON-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
```

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        Santa Barbara, CA 93117, USA
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        E-mail: fred@cisco.com
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```

Nortel Networks  
600 Technology Park Drive  
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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:

$$\text{diffServMinRateRelative} = (\text{diffServMinRateAbsolute} * 1000000) / \text{ifSpeed}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \text{diffServMinRateAbsolute} / \text{ifHighSpeed}$$

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:

$$\text{diffServMinRateRelative} = \frac{\text{diffServMinRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMinRateRelative} = \frac{\text{diffServMinRateAbsolute}}{\text{ifHighSpeed}}$$

#### 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:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute}}{\text{ifHighSpeed}}$$

#### 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:

$$\text{diffServMaxRateRelative} = \frac{\text{diffServMaxRateAbsolute} * 1000000}{\text{ifSpeed}}$$

or, if appropriate:

$$\text{diffServMaxRateRelative} = \text{diffServMaxRateAbsolute} / \text{ifHighSpeed}$$

#### 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):

\* /opt/cola/permits/1114224826\_1674671247.9990723/0/mibble-commercial-mibs-2-9-3-jar/mibs/ietf/DIFFSERV-MIB

## 1.310 jul-to-slf4j 1.7.5

## 1.311 scala-library 2.10.0

### 1.311.1 Available under license :

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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`).
*
* Copyright 2008 Google Inc. All Rights Reserved.
* @author Burak Emir <bqe@google.com>
*/
```

Found in path(s):

```
*/opt/cola/permits/1125289170_1611282320.95/0/scala-library-2-10-0-sources-jar/scala/xml/MetaData.scala
```

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

```
/**
*
* 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):

```
*/opt/cola/permits/1125289170_1611282320.95/0/scala-library-2-10-0-sources-jar/scala/reflect/ClassTag.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):

```
* /opt/cola/permits/1125289170_1611282320.95/0/scala-library-2-10-0-sources-jar/scala/xml/Elem.scala
```

## 1.312 jsr305 3.0.1

## 1.313 jackson-jaxrs-xml-provider 2.10.4

### 1.313.1 Available under license :

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<http://www.apache.org/licenses/LICENSE-2.0>

# 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, as well as supported commercially by FasterXML.com.

#### ## Licensing

Jackson core and extension components may be licensed under different licenses.

To find the details that apply to this artifact see the accompanying LICENSE file.

For more information, including possible other licensing options, contact FasterXML.com (<http://fasterxml.com>).

#### ## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

# 1.314 springsource-javax-jms 1.1.0

## 1.314.1 Available under license :

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```
/*
 * @(#)QueueSender.java 1.29 02/04/09
 *
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 *
 */
```

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```
*/opt/cola/permits/1114224947_1611258261.97/0/com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/QueueSender.java
```

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```
/*
 * @(#)XATopicSession.java 1.12 02/04/09
 *
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 *
 */
```

Found in path(s):

```
*/opt/cola/permits/1114224947_1611258261.97/0/com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/XATopicSession.java
```

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

```
/*
 * @(#)ServerSessionPool.java 1.12 02/04/09
 *
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 *
 */
```

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\* /opt/cola/permits/1114224947\_1611258261.97/0/com-springsource-javax-jms-sources-1-1-0-jar-zip/com-springsource-javax-jms-sources-1-1-0-jar/javax/jms/ServerSessionPool.java

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\* @(#)TransactionRolledBackException.java 1.7 02/04/09

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\* @(#)XAConnection.java 1.8 02/04/09

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\* @(#)Topic.java 1.17 02/04/09

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\* @(#)StreamMessage.java 1.40 02/04/09

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\* @(#)TopicPublisher.java 1.30 02/04/09

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\* @(#)TextMessage.java 1.17 02/04/09

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\* @(#)Destination.java 1.16 02/04/09

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\* @(#)MessageListener.java 1.14 02/04/09

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\* @(#)TopicConnectionFactory.java 1.15 02/04/09

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\* @(#)XACConnectionFactory.java 1.10 02/04/09

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\* @(#)InvalidDestinationException.java 1.8 02/04/09

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\* @(#)ConnectionFactory.java 1.11 02/04/09

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\* @(#)Session.java 1.44 02/04/10

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\* @(#)ConnectionMetaData.java 1.11 02/04/09

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\* @(#)TopicSession.java 1.40 02/04/10

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\* @(#)MessageFormatException.java 1.7 02/04/09

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\* @(#)TemporaryTopic.java 1.11 02/04/09

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\* @(#)XATopicConnection.java 1.17 02/04/09

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\* @(#)Queue.java 1.16 02/04/09

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\* @(#)MessageEOFException.java 1.8 02/04/09

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\* @(#)XAQueueConnection.java 1.17 02/04/09

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\* @(#)TopicSubscriber.java 1.28 02/04/09

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\* @(#)MessageNotWriteableException.java 1.7 02/04/09

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\* @(#)QueueRequestor.java 1.21 02/04/09

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\* @(#)MessageNotReadableException.java 1.7 02/04/09

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\* @(#)InvalidClientIDException.java 1.8 02/04/09

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\* @(#)ExceptionListener.java 1.8 02/04/09

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\* @(#)TransactionInProgressException.java 1.8 02/04/09

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\* @(#)XAConnectionFactory.java 1.14 02/04/09

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\* @(#)TopicConnection.java 1.19 02/04/09

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\* @(#)BytesMessage.java 1.31 02/04/09

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\* @(#)MessageConsumer.java 1.19 02/04/09

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\* @(#)QueueBrowser.java 1.20 02/04/09

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\* @(#)XAQueueConnectionFactory.java 1.14 02/04/09

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\* @(#)QueueReceiver.java 1.21 02/04/09

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\* @(#)ResourceAllocationException.java 1.6 02/04/09

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\* @(#)XAQueueSession.java 1.11 02/04/09

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\* @(#)JMSSecurityException.java 1.8 02/04/09

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\* @(#)IllegalStateException.java 1.7 02/04/09

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\* @(#)DeliveryMode.java 1.9 02/04/09

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\* @(#)TopicRequestor.java 1.20 02/04/09

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\* @(#)InvalidSelectorException.java 1.6 02/04/09

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\* @(#)MessageProducer.java 1.25 02/04/09

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\* @(#)MapMessage.java 1.35 02/04/09

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\* @(#)QueueConnection.java 1.22 02/04/10

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\* @(#)JMSEException.java 1.15 02/04/09

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\* @(#)ResourceAllocationException.java 1.4 01/02/16

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\* @(#)Message.java 1.60 02/04/09

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\* @(#)QueueConnectionFactory.java 1.14 02/04/23

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\* @(#)XASession.java 1.18 02/04/09

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\* @(#)QueueSession.java 1.26 02/04/09

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\* @(#)ConnectionConsumer.java 1.16 02/04/09

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ASM: a very small and fast Java bytecode manipulation framework

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\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-

jar/org/drools/decisiontable/parser/RhsBuilder.java

\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-

jar/org/drools/decisiontable/parser/SourceBuilder.java

\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-

jar/org/drools/decisiontable/package-info.java

```
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/DecisionTableProviderImpl.java
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/LhsBuilder.java
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```
* /opt/cola/permits/1095510603_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/python-dt/pydt.py
```

# 1.320 commons-logging 1.1.1

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Found in path(s):

```
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/tools/rmi/RemoteException.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/compiler/CompileError.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/CtNewWrappedConstructor.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/Modifier.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/util/proxy/SecurityActions.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/compiler/ast/AssignExpr.java  
* /opt/cola/permits/1110725205_1606846757.03/0/javassist-3-20-0-ga-sources-1-  
jar/javassist/bytecode/annotation/AnnotationsWriter.java
```

\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/Handler.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/InstructionPrinter.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/ObjectImporter.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ClassPath.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/AttributeInfo.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/ByteArray.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/MultiArrayType.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/DoubleConst.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ByteArrayClassPath.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Executor.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/web/Webserver.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/TypeChecker.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/Keyword.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/Sample.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/DuplicateMemberException.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtBehavior.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/FramePrinter.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/Lex.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/CondExpr.java

\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/TokenId.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/reflect/Metalevel.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/MethodHandler.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/ConstructorCall.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/Parser.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/SubroutineScanner.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/ASTList.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/ClassClassPath.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/stackmap/Tracer.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/rmi/AppletServer.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/CtClass.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/tools/Callback.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/convert/TransformNewClass.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/util/proxy/SerializedProxy.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/Cast.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/IntConst.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/runtime/Desc.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/compiler/ast/BinExpr.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/expr/Instanceof.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/CodeAnalyzer.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/analysis/Analyzer.java

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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java  
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\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java  
\* /opt/cola/permits/1110725205\_1606846757.03/0/javassist-3-20-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java

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## 1.333 easymock 3.2

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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/AbstractHashMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/TransformedSortedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/SingletonListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/UnmodifiableOrderedMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/ObjectArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/ArrayIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/ArrayListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/LoopingIterator.java
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jar/org/apache/commons/collections/iterators/EnumerationIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/UniqueFilterIterator.java
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jar/org/apache/commons/collections/comparators/ComparatorChain.java
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jar/org/apache/commons/collections/iterators/ObjectArrayIterator.java
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jar/org/apache/commons/collections/iterators/CollatingIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/UnmodifiableListIterator.java
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jar/org/apache/commons/collections/iterators/FilterListIterator.java
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\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/ProxyListIterator.java  
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jar/org/apache/commons/collections/iterators/IteratorEnumeration.java  
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jar/org/apache/commons/collections/iterators/TransformIterator.java  
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- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/map/AbstractSortedMapDecorator.java
- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/list/TypedList.java
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- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/bidimap/AbstractDualBidiMap.java
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* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/OrderedMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/InstantiateFactory.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/MapTransformer.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
```

jar/org/apache/commons/collections/FunctorException.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ChainedTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ExceptionPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/FastHashMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/TransformerClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NOPClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Closure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ExceptionClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/OrderedMapIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/comparators/ComparableComparator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/comparators/TransformingComparator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NullPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/TransformedPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/comparators/NullComparator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/InstanceofPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/OrPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/InvokerTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/LRUMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/ListUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/comparators/FixedOrderComparator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Transformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ChainedClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/TransformerPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/EqualPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-

jar/org/apache/commons/collections/functors/AndPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/MultiMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Bag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ExceptionTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/ReferenceMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ConstantTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NullIsFalsePredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/DefaultMapEntry.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BinaryHeap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ForClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/PredicateTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NullIsExceptionPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Predicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/IdentityPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ConstantFactory.java  
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jar/org/apache/commons/collections/PriorityQueue.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/comparators/ReverseComparator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/collection/CompositeCollection.java  
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jar/org/apache/commons/collections/functors/CloneTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NotPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/NullIsTruePredicate.java  
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jar/org/apache/commons/collections/functors/SwitchClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/ArrayStack.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/ExceptionFactory.java  
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jar/org/apache/commons/collections/functors/NOPTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/InstantiateTransformer.java  
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```

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/bag/AbstractMapBag.java
```

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/FactoryUtils.java
```

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/DefaultMapBag.java
```

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/DoubleOrderedMap.java
```

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
```

jar/org/apache/commons/collections/SequencedHashMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BufferUnderflowException.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BoundedCollection.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/TransformerUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BufferOverflowException.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/SetUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/CursorableLinkedList.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Factory.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BagUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/map/ReferenceMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/Buffer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/ComparatorUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/UnboundedFifoBuffer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/TreeBag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BoundedFifoBuffer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/HashBag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/SortedBag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/IteratorUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/ProxyMap.java

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- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/TiedMapEntry.java
- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/AbstractMapEntry.java
- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/UnmodifiableMapEntry.java
- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/AbstractKeyValue.java
- \* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/keyvalue/DefaultKeyValue.java
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jar/org/apache/commons/collections/keyvalue/DefaultMapEntry.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/functors/StringValueTransformer.java
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\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AnyPredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/SwitchTransformer.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/OnePredicate.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/IfClosure.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/FunctorUtils.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-jar/org/apache/commons/collections/functors/AllPredicate.java  
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jar/org/apache/commons/collections/bag/TreeBag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/bag/HashBag.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/list/CursorableLinkedList.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/map/StaticBucketMap.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/BufferUtils.java  
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jar/org/apache/commons/collections/iterators/ObjectGraphIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/collection/AbstractSerializableCollectionDecorator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/EmptyOrderedMapIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/AbstractEmptyIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/list/AbstractSerializableListDecorator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/functors/PredicateDecorator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/EmptyIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/EmptyOrderedIterator.java  
\* /opt/cola/permits/1110923526\_1606872995.34/0/commons-collections-3-2-sources-2-  
jar/org/apache/commons/collections/iterators/EmptyListIterator.java

```
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/LoopingListIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/set/MapBackedSet.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/CaseInsensitiveMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/iterators/EmptyMapIterator.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
jar/org/apache/commons/collections/map/MultiKeyMap.java
* /opt/cola/permits/1110923526_1606872995.34/0/commons-collections-3-2-sources-2-
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jar/org/apache/commons/collections/iterators/ReverseListIterator.java
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## 1.335 hibernate-validator 5.1.3.Final

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*/
/**
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a JSR 223
* ("Scripting for the JavaTM Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* { @link javax.validation.ParameterNameProvider}. By default, { @code arg0}, { @code arg1} etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* { @code @ParametersScriptAssert(script = "arg0.before(arg1)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

```

Found in path(s):

```

* /opt/cola/permits/1343826899_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java

\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/aggregated/ValidatableParametersMetaData.java

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/facets/Cascadable.java  
\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/descriptor/ReturnValueDescriptorImpl.java  
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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/ModUtil.java  
\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredConstructors.java

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ValidatorFactoryImpl.java  
\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/core/ConstraintHelper.java  
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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/constraintvalidators/FutureValidatorForReadableInstant.java

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/engine/ValidationContext.java

\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/metadata/aggregated/UnconstrainedEntityMetaDataSingleton.java

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/xml/ClassLoadingHelper.java

\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/internal/constraintvalidators/EANValidator.java

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- \* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/cfg/defs/LengthDef.java
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- \* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-jar/org/hibernate/validator/constraintvalidation/HibernateConstraintValidatorContext.java
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jar/org/hibernate/validator/internal/engine/messageinterpolation/package.html  
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\* Retrieves constraint related meta data for the parameters of the given  
\* executable.  
\*  
\* @param executable The executable of interest.  
\*  
\* @return A list with parameter meta data for the given executable.  
\*/

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\* /opt/cola/permits/1343826899\_1655158404.5785875/0/hibernate-validator-5-1-3-final-sources-7-  
jar/org/hibernate/validator/cfg/defs/package.html  
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## 1.336 mongo-jackson-codec 3.2.2\_\_0.5

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jar/META-INF/maven/org.springframework.cloud/spring-cloud-circuitbreaker-spring-retry/pom.xml
```

## 1.341 antlr 2.7.6

# 1.342 jsqparser 2.1

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 */
```

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```
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/HibernateTemplate.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/vendor/SpringHibernateJpaPersistenceProvider.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewInterceptor.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate3/HibernateTemplate.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/support/OpenSessionInViewFilter.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/SpringSessionSynchronization.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
```

jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewFilter.java

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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateOptimisticLockingFailureException.java

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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/LocalRegionFactoryProxy.java

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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jdo/PersistenceManagerHolder.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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* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java
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jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/hibernate4/HibernateTransactionManager.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-
jar/org/springframework/orm/jpa/JpaSystemException.java
* /opt/cola/permits/1147791443_1617098476.2/0/spring-orm-4-3-19-release-sources-4-

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jar/org/springframework/orm/hibernate4/HibernateCallback.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/hibernate3/HibernateCallback.java  
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jar/org/springframework/orm/jpa/vendor/HibernateJpaSessionFactoryBean.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/jpa/EntityManagerFactoryUtils.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/jpa/JpaVendorAdapter.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/hibernate4/support/OpenSessionInViewInterceptor.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/ObjectOptimisticLockingFailureException.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/ObjectRetrievalFailureException.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
jar/org/springframework/orm/jpa/vendor/HibernateJpaDialect.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-  
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jar/org/springframework/orm/hibernate4/SpringFlushSynchronization.java  
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jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitPostProcessor.java

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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SpringSessionSynchronization.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/AbstractSessionFactoryBean.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/SessionHolder.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java  
\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/AbstractLobType.java  
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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/jpa/JpaObjectRetrievalFailureException.java  
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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/HibernateObjectRetrievalFailureException.java

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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateExceptionTranslator.java  
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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate4/HibernateQueryException.java  
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\* /opt/cola/permits/1147791443\_1617098476.2/0/spring-orm-4-3-19-release-sources-4-jar/org/springframework/orm/hibernate3/support/ClobStringType.java  
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## 1.344 cassandra-driver-core 3.2.0

## 1.345 commons-dbcp 2.0.1

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## 1.346 sesame-rio-ntriples 2.7.16

# 1.347 stax-api 1.0.1

## 1.347.1 Available under license :

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```
/**
 * An interface for handling Entity events.
 *
 * This event reports entities that have not been resolved
 * and reports their replacement text unprocessed (if
 * available). This event will be reported if javax.xml.stream.isReplacingEntityReferences
 * is set to false. If javax.xml.stream.isReplacingEntityReferences is set to true
 * entity references will be resolved transparently.
 *
 * Entities are handled in two possible ways:
 *
 * (1) If javax.xml.stream.isReplacingEntityReferences is set to true
 * all entity references are resolved and reported as markup transparently.
 * (2) If javax.xml.stream.isReplacingEntityReferences is set to false
 * Entity references are reported as an EntityReference Event.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EntityReference.java
```

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

```
/**
 * This interface is used to resolve resources during an XML parse. If an application wishes to
 * perform custom entity resolution it must register an instance of this interface with
 * the XMLInputFactory using the setXMLResolver method.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLResolver.java
```

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

```
/**
 * An error class for reporting factory configuration errors.
 *
 */
```

\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/FactoryConfigurationError.java

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

/\*\*

\* This interface defines a class that allows a user to register  
\* a way to allocate events given an XMLStreamReader. An implementation  
\* is not required to use the XMLEventFactory implementation but this  
\* is recommended. The XMLEventAllocator can be set on an XMLInputFactory  
\* using the property "javax.xml.stream allocator"

\*

\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\* @see javax.xml.stream.XMLInputFactory  
\* @see javax.xml.stream.XMLEventFactory  
\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/util/XMLEventAllocator.java

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

/\*\*

\* This is the base event interface for handling markup events.  
\* Events are value objects that are used to communicate the  
\* XML 1.0 InfoSet to the Application. Events may be cached  
\* and referenced after the parse has completed.

\*

\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\* @see javax.xml.stream.XMLEventReader  
\* @see Characters  
\* @see ProcessingInstruction  
\* @see StartElement  
\* @see EndElement  
\* @see StartDocument  
\* @see EndDocument  
\* @see EntityReference  
\* @see EntityDeclaration  
\* @see NotationDeclaration  
\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/events/XMLEvent.java

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

/\*\*

\* An interface for handling Notation Declarations

\*

\* Receive notification of a notation declaration event.

\* It is up to the application to record the notation for later reference,

\* At least one of publicId and systemId must be non-null.

\* There is no guarantee that the notation declaration

\* will be reported before any unparsed entities that use it.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/events/NotationDeclaration.java

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

/\*\*

\*

\* This is the top level interface for parsing XML Events. It provides

\* the ability to peek at the next event and returns configuration

\* information through the property interface.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see XMLInputFactory

\* @see XMLEventWriter

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/XMLEventReader.java

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

/\*\*

\* Defines an abstract implementation of a factory for getting streams.

\*

\* The following table defines the standard properties of this specification.

\* Each property varies in the level of support required by each implementation.

\* The level of support required is described in the 'Required' column.

\*

\* <table border="2" rules="all" cellpadding="4">

\* <thead>

```

* <tr>
* <th align="center" colspan="5">
* Configuration parameters
* </th>
* </tr>
* </thead>
* <tbody>
* <tr>
* <th>Property Name</th>
* <th>Behavior</th>
* <th>Return type</th>
* <th>Default Value</th>
* <th>Required</th>
* </tr>
* <tr><td>javax.xml.stream.isValidating</td><td>Turns on/off implementation specific DTD
validation</td><td>Boolean</td><td>False</td><td>No</td></tr>
* <tr><td>javax.xml.stream.isNamespaceAware</td><td>Turns on/off namespace processing for XML 1.0
support</td><td>Boolean</td><td>True</td><td>True (required) / False (optional)</td></tr>
* <tr><td>javax.xml.stream.isCoalescing</td><td>Requires the processor to coalesce adjacent character
data</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.isReplacingEntityReferences</td><td>replace internal entity references with their
replacement text and report them as characters</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.isSupportingExternalEntities</td><td>Resolve external parsed
entities</td><td>Boolean</td><td>Unspecified</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.supportDTD</td><td>Use this property to request processors that do not support
DTDs</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.reporter</td><td>sets/gets the impl of the XMLReporter
</td><td>javax.xml.stream.XMLReporter</td><td>Null</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.resolver</td><td>sets/gets the impl of the XMLResolver
interface</td><td>javax.xml.stream.XMLResolver</td><td>Null</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream allocator</td><td>sets/gets the impl of the XMLEventAllocator
interface</td><td>javax.xml.stream.util.XMLEventAllocator</td><td>Null</td><td>Yes</td></tr>
* </tbody>
* </table>
*
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLOutputFactory
* @see XMLEventReader
* @see XMLStreamReader
* @see EventFilter
* @see XMLReporter
* @see XMLResolver
* @see javax.xml.stream.util.XMLEventAllocator
*/

```

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/XMLInputFactory.java

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

/\*\*

\* The XMLStreamWriter interface specifies how to write XML. The XMLStreamWriter does  
\* not perform well formedness checking on its input. However  
\* the writeCharacters method is required to escape & , &lt; and &gt;  
\* For attribute values the writeAttribute method will escape the  
\* above characters plus &quot; to ensure that all character content  
\* and attribute values are well formed.

\*

\* Each NAMESPACE  
\* and ATTRIBUTE must be individually written.

\*

\* If javax.xml.stream.isPrefixDefaulting is set to false it is a fatal error if an element  
\* is written with namespace URI that has not been bound to a prefix.

\*

\* If javax.xml.stream.isPrefixDefaulting is set to true the XMLStreamWriter implementation  
\* must write a prefix for each unbound URI that it encounters in the  
\* current scope.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see XMLOutputFactory

\* @see XMLStreamReader

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/XMLStreamWriter.java

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/\*\*

\* The StartElement interface provides access to information about  
\* start elements. A StartElement is reported for each Start Tag  
\* in the document.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/events/StartElement.java

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

/\*\*

```
* An interface for handling Entity Declarations
*
* This interface is used to record and report unparsed entity declarations.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EntityDeclaration.java
```

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

```
/**
```

```
* This interface is used to report non-fatal errors.
* Only warnings should be echoed through this interface.
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLReporter.java
```

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

```
/**
```

```
* Provides information on the location of an event.
*
* All the information provided by a Location is optional. For example
* an application may only report line numbers.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/Location.java
```

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

```
/**
```

```
* This interface declares a simple filter interface that one can
* create to filter XMLEventReaders
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
*/opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/EventFilter.java
```

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

```
/**
 * This interface defines an event consumer interface. The contract of the
 * of a consumer is to accept the event. This interface can be used to
 * mark an object as able to receive events. Add may be called several
 * times in immediate succession so a consumer must be able to cache
 * events it hasn't processed yet.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/util/XMLEventConsumer.java
```

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

```
/**
 *
 * This is the top level interface for writing XML documents.
 *
 * Instances of this interface are not required to validate the
 * form of the XML.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see XMLEventReader
 * @see javax.xml.stream.events.XMLEvent
 * @see javax.xml.stream.events.Characters
 * @see javax.xml.stream.events.ProcessingInstruction
 * @see javax.xml.stream.events.StartElement
 * @see javax.xml.stream.events.EndElement
 */
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLEventWriter.java
```

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

```
/**
 * This interface defines a utility class for creating instances of
 * XMLEvents
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see javax.xml.stream.events.StartElement
 * @see javax.xml.stream.events.EndElement
 * @see javax.xml.stream.events.ProcessingInstruction
```

```
* @see javax.xml.stream.events.Comment
* @see javax.xml.stream.events.Characters
* @see javax.xml.stream.events.StartDocument
* @see javax.xml.stream.events.EndDocument
* @see javax.xml.stream.events.DTD
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLEventFactory.java
```

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

```
/**
```

```
* An interface for the end element event. An EndElement is reported
* for each End Tag in the document.
```

```
*
```

```
* @version 1.0
```

```
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
```

```
* @see XMLEvent
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EndElement.java
```

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

```
/**
```

```
* This is the base class for deriving an XMLStreamReader filter
```

```
*
```

```
* This class is designed to sit between an XMLStreamReader and an
* application's XMLStreamReader. By default each method
* does nothing but call the corresponding method on the
* parent interface.
```

```
*
```

```
* @version 1.0
```

```
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
```

```
* @see javax.xml.stream.XMLStreamReader
```

```
* @see EventReaderDelegate
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/util/StreamReaderDelegate.java
```

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

```
/**
```

```
* This is the base class for deriving an XMLEventReader
```

```
* filter.
```

```
*
* This class is designed to sit between an XMLEventReader and an
* application's XMLEventReader. By default each method
* does nothing but call the corresponding method on the
* parent interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLEventReader
* @see StreamReaderDelegate
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/util/EventReaderDelegate.java
```

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

```
/**
* An interface that contains information about an attribute. Attributes are reported
* as a set of events accessible from a StartElement. Other applications may report
* Attributes as first-order events, for example as the results of an XPath expression.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see StartElement
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Attribute.java
```

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

```
/**
* Defines an abstract implementation of a factory for
* getting XMLEventWriters and XMLStreamWriters.
*
* The following table defines the standard properties of this specification.
* Each property varies in the level of support required by each implementation.
* The level of support required is described in the 'Required' column.
*
* <table border="2" rules="all" cellpadding="4">
* <thead>
* <tr>
* <th align="center" colspan="2">
* Configuration parameters
* </th>
* </tr>
* </thead>
```

```

* <tbody>
*   <tr>
*     <th>Property Name</th>
*     <th>Behavior</th>
*     <th>Return type</th>
*     <th>Default Value</th>
*     <th>Required</th>
*   </tr>
*   <tr><td>javax.xml.stream.isRepairingNamespaces</td><td>defaults prefixes on the output
side</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
* </tbody>
* </table>

```

\* <p>The following paragraphs describe the namespace and prefix repair algorithm:</p>

\* <p>The property can be set with the following code line:

```
* <code>setProperty("javax.xml.stream.isRepairingNamespaces",new Boolean(true|false));</code></p>
```

\* <p>This property specifies that the writer default namespace prefix declarations.

\* The default value is false. </p>

\* <p>If a writer isRepairingNamespaces it will create a namespace declaration

\* on the current StartElement for

\* any attribute that does not

\* currently have a namespace declaration in scope. If the StartElement

\* has a uri but no prefix specified a prefix will be assigned, if the prefix

\* has not been declared in a parent of the current StartElement it will be declared

\* on the current StartElement. If the defaultNamespace is bound and in scope

\* and the default namespace matches the URI of the attribute or StartElement

\* QName no prefix will be assigned.</p>

\* <p>If an element or attribute name has a prefix, but is not

\* bound to any namespace URI, then the prefix will be removed

\* during serialization.</p>

\* <p>If element and/or attribute names in the same start or

\* empty-element tag are bound to different namespace URIs and

\* are using the same prefix then the element or the first

\* occurring attribute retains the original prefix and the

\* following attributes have their prefixes replaced with a

\* new prefix that is bound to the namespace URIs of those

\* attributes. </p>

\* <p>If an element or attribute name uses a prefix that is

\* bound to a different URI than that inherited from the

\* namespace context of the parent of that element and there

\* is no namespace declaration in the context of the current

\* element then such a namespace declaration is added. </p>

```
*
* <p>If an element or attribute name is bound to a prefix and
* there is a namespace declaration that binds that prefix
* to a different URI then that namespace declaration is
* either removed if the correct mapping is inherited from
* the parent context of that element, or changed to the
* namespace URI of the element or attribute using that prefix.</p>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLInputFactory
* @see XMLEventWriter
* @see XMLStreamWriter
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/XMLOutputFactory.java
```

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

```
/**
* A marker interface for the end of the document
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/EndDocument.java
```

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

```
/**
* This is the top level interface for events dealing with DTDs
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/DTD.java
```

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```
/**
* An interface that describes the data found in processing instructions
*
* @version 1.0
```

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/events/ProcessingInstruction.java

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/\*\*

\* The base exception for unexpected processing errors. This Exception

\* class is used to report well-formedness errors as well as unexpected

\* processing conditions.

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/XMLStreamException.java

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/\*\*

\* An interface for comment events

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

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/\*\*

\* This interface declares a simple filter interface that one can

\* create to filter XMLStreamReaders

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

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\* /opt/cola/permits/1124847005\_1611186033.82/0/stax-api-1-0-2-sources-  
zip/src/javax/xml/stream/StreamFilter.java

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/\*\*

\* An interface that contains information about a namespace.

\* Namespaces are accessed from a StartElement.

```
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see StartElement
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Namespace.java
```

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```
/**
```

```
* This describes the interface to Characters events.
* All text events get reported as Characters events.
* Content, CDATA and whitespace are all reported as
* Characters events. IgnorableWhitespace, in most cases,
* will be set to false unless an element declaration of element
* content is present for the current element.
```

```
*
```

```
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/Characters.java
```

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```
/**
```

```
* An interface for the start document event
```

```
*
```

```
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
zip/src/javax/xml/stream/events/StartDocument.java
```

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```
/**
```

```
* The XMLStreamReader interface allows forward, read-only access to XML.
* It is designed to be the lowest level and most efficient way to
* read XML data.
```

```
*
```

```
* <p> The XMLStreamReader is designed to iterate over XML using
* next() and hasNext(). The data can be accessed using methods such as getEventType(),
* getNamespaceURI(), getLocalName() and getText();
```

\*  
 \* `<p>` The `<a href="#next()">next()` method causes the reader to read the next parse event.  
 \* The `next()` method returns an integer which identifies the type of event just read.  
 \* `<p>` The event type can be determined using `<a href="#getEventType()">getEventType()`.  
 \* `<p>` Parsing events are defined as the XML Declaration, a DTD,  
 \* start tag, character data, white space, end tag, comment,  
 \* or processing instruction. An attribute or namespace event may be encountered  
 \* at the root level of a document as the result of a query operation.  
 \*  
 \* `<p>`For XML 1.0 compliance an XML processor must pass the  
 \* identifiers of declared unparsed entities, notation declarations and their  
 \* associated identifiers to the application. This information is  
 \* provided through the property API on this interface.  
 \* The following two properties allow access to this information:  
 \* `javax.xml.stream.notation` and `javax.xml.stream.entities`.  
 \* When the current event is a DTD the following call will return a  
 \* list of Notations  
 \* `<code>List l = (List) getProperty("javax.xml.stream.notation");</code>`  
 \* The following call will return a list of entity declarations:  
 \* `<code>List l = (List) getProperty("javax.xml.stream.entities");</code>`  
 \* These properties can only be accessed during a DTD event and  
 \* are defined to return null if the information is not available.  
 \*  
 \* `<p>`The following table describes which methods are valid in what state.  
 \* If a method is called in an invalid state the method will throw a  
 \* `java.lang.IllegalStateException`.  
 \*  
 \* `<table border="2" rules="all" cellpadding="4">`  
 \* `<thead>`  
 \* `<tr>`  
 \* `<th align="center" colspan="2">`  
 \* Valid methods for each state  
 \* `</th>`  
 \* `</tr>`  
 \* `</thead>`  
 \* `<tbody>`  
 \* `<tr>`  
 \* `<th>Event Type</th>`  
 \* `<th>Valid Methods</th>`  
 \* `</tr>`  
 \* `<tr>`  
 \* `<td> All States </td>`  
 \* `<td> getProperty(), hasNext(), require(), close(),`  
 \* `getNamespaceURI(), isStartElement(),`  
 \* `isEndElement(), isCharacters(), isWhiteSpace(),`  
 \* `getNamespaceContext(), getEventType(), getLocation(),`  
 \* `hasText(), hasName()`  
 \* `</td>`  
 \* `</tr>`

```

* </tr>
* <tr>
* <td> START_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
*   getAttributeXXX(), isAttributeSpecified(),
*   getNamespaceXXX(),
*   getElementText(), nextTag()
* </td>
* </tr>
* <td> ATTRIBUTE </td>
* <td> next(), nextTag()
*   getAttributeXXX(), isAttributeSpecified(),
* </td>
* </tr>
* </tr>
* <td> NAMESPACE </td>
* <td> next(), nextTag()
*   getNamespaceXXX()
* </td>
* </tr>
* <tr>
* <td> END_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
*   getNamespaceXXX(), nextTag()
* </td>
* </tr>
* <tr>
* <td> CHARACTERS </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> CDATA </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> COMMENT </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> SPACE </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> START_DOCUMENT </td>
* <td> next(), getEncoding(), getVersion(), isStandalone(), standaloneSet(),
*   getCharacterEncodingScheme(), nextTag()</td>
* </tr>
* <tr>

```

```

* <td> END_DOCUMENT </td>
* <td> close()</td>
* </tr>
* <tr>
* <td> PROCESSING_INSTRUCTION </td>
* <td> next(), getPITarget(), getPIData(), nextTag() </td>
* </tr>
* <tr>
* <td> ENTITY_REFERENCE </td>
* <td> next(), getLocalName(), getText(), nextTag() </td>
* </tr>
* <tr>
* <td> DTD </td>
* <td> next(), getText(), nextTag() </td>
* </tr>
* </tbody>
* </table>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.events.XMLEvent
* @see XMLInputFactory
* @see XMLStreamWriter
*/

```

Found in path(s):

```

* /opt/cola/permits/1124847005_1611186033.82/0/stax-api-1-0-2-sources-
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```

## 1.348 jaxb-api 2.2.11

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- \* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElements.java

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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ParseConversionEvent.java  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementRef.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlEnum.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlID.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBIntrospector.java  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlValue.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlRegistry.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/PropertyException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttribute.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java  
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jar/javax/xml/bind/DatatypeConverterInterface.java

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jar/javax/xml/bind/ValidationEvent.java

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jar/javax/xml/bind/util/JAXBSource.java

\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-

jar/javax/xml/bind/Unmarshaller.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/TypeConstraintException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Element.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ContextFinder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/UnmarshallerException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBContext.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/NotIdentifiableEvent.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/ValidationEventCollector.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Unmarshaller.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverter.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/MarshalException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/Messages.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/Messages.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEventLocator.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/util/JAXBResult.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Validator.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/ValidationEventHandler.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/ValidationEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/JAXBException.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-

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jar/javax/xml/bind/util/Messages.properties  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMimeType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlMixed.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/W3CDomHandler.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorOrder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/DomHandler.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/SchemaOutputResolver.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/Binder.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAttachmentRef.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/attachment/AttachmentMarshaller.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlSchemaType.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java

\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlElementWrapper.java

\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/annotation/XmlList.java

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jar/javax/xml/bind/annotation/adapters/package.html  
* /opt/cola/permits/1278352604_1654022869.4097037/0/jaxb-api-2-2-11-sources-  
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\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/WhiteSpaceProcessor.java  
\* /opt/cola/permits/1278352604\_1654022869.4097037/0/jaxb-api-2-2-11-sources-jar/javax/xml/bind/DatatypeConverterImpl.java

## 1.349 sesame-rio-rdfjson 2.7.16

## 1.350 jaxb-runtime 2.3.1

## 1.351 config-types 2.5.0-b05

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# 1.352 bson 3.12.4

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jar/org/bson/util/AbstractCopyOnWriteMap.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/util/CopyOnWriteMap.java
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/UuidRepresentation.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/FloatCodec.java

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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/LazyPojoCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/RawBsonDocument.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/CodeWScope.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/DiscriminatorLookup.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonBinaryReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BSONObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertySerialization.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonStringConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/CodecCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/LazyBSONObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BasicBSONEncoder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonTypeCodecMap.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/JULLogger.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/StringUtils.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/AbstractBsonReader.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonArrayCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonValue.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/BsonObjectId.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/package-
info.java
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jar/org/bson/codecs/Codec.java
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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonCodecProvider.java
```

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jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
```

## 1.353 owlapi-apibinding 4.2.7

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## 1.354 swagger-annotations 1.3.5

### 1.355 json 20160810

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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/GMonthDayType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NegativeIntegerType.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameValueType.java

\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/XmlNames.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/HexBinaryType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/PatternFacet.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnsignedIntType.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/RangeFacet.java  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/FloatType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/DatatypeFactory.java  
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jar/com/sun/msv/datatype/xsd/MinLengthFacet.java  
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jar/com/sun/msv/datatype/xsd/IDREFTType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
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jar/com/sun/msv/datatype/xsd/ngimpl/DataTypeLibraryImpl.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/datetime/Util.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
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jar/com/sun/msv/datatype/xsd/DoubleType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/LanguageType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/MaxInclusiveFacet.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/ByteType.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlib-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/xsd/EntityType.java

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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/ParseException.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/RegularExpression.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/Match.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
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\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/REUtil.java  
\* /opt/cola/permits/1177942015\_1625571932.43/0/xsdlb-2013-6-1-sources-2-  
jar/com/sun/msv/datatype/regexp/BMPattern.java

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 \* /opt/cola/permits/1000000713\_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/ServiceLoaderImpl.java  
 \* /opt/cola/permits/1000000713\_1654022962.973248/0/osgi-resource-locator-1-0-1-sources-jar/org/glassfish/hk2/osgiresourcelocator/Activator.java  
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# 1.362 xmltooling 1.4.4

## 1.362.1 Available under license :

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\*/

/\*\*

\* Encodes and decodes to and from Base64 notation.

\*  
 \* <p>  
 \* Change Log:  
 \* </p>  
 \* <ul>  
 \* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading  
 \* and writing to and from files.</li>  
 \* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like  
 \* EBCDIC).</li>  
 \* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>  
 \* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.  
 \* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.  
 \* Generally things are cleaner. You'll probably have to change some method calls that you were making to support  
 the  
 \* new options format (<tt>int</tt>s that you "OR" together).</li>  
 \* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using  
 \* <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output  
 Stream  
 \* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an  
 XML  
 \* file).</li>  
 \* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP  
 \* streams. Added the ability to GZip-compress objects before encoding them.</li>  
 \* <li>v1.4 - Added helper methods to read/write files.</li>  
 \* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>  
 \* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if  
 \* not completely full, was not returned.</li>  
 \* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>  
 \* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>  
 \* </ul>  
 \*  
 \* <p>  
 \* I am placing this code in the Public Domain. Do with it as you will. This software comes with no guarantees or  
 \* warranties but with plenty of well-wishing instead! Please visit <a  
 \* href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute  
 \* improvements.  
 \* </p>  
 \*  
 \* @author Robert Harder  
 \* @author rob@iharder.net  
 \* @version 2.1  
 \*/

Found in path(s):

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-  
 jar/org/opensaml/xml/util/Base64.java

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 */
```

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* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/NamespacerManager.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/X509SKI.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/x509/X509CredentialNameEvaluator.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/impl/EncryptedTypeImpl.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/credential/criteria/EvaluableEntityIDCredentialCriteria.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/Resolver.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/encryption/OriginatorKeyInfo.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/impl/TransformMarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
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* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/util/LazyList.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/security/x509/X509DigestCriteria.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/AbstractElementExtensibleXMLObjectMarshaller.java
* /opt/cola/permits/1114224941_1607455166.13/0/xmltooling-1-4-4-sources-2-
jar/org/opensaml/xml/signature/Exponent.java
```

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/util/IndexingObjectStore.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/io/BaseXMLObjectMarshaller.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/KeyInfoReferenceSchemaValidator.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/UsageType.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/StaticKeyInfoGenerator.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/DigestMethodBuilder.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/parse/XMLParserException.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/EncryptedTypeMarshaller.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceImpl.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509IssuerSerial.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/SignatureTrustEngine.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/AbstractXMLEncryptionUnmarshaller.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/SecurityConfiguration.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/ReferenceListBuilder.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/ElementExtensibleXMLObject.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/schema/XSBoolean.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/CarriedKeyName.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/KeyInfoResolutionContext.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/DSAKeyValueSchemaValidator.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/RSAKeyValueBuilder.java

\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/X509SerialNumber.java

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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/AttributeExtensibleXMLObject.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/encryption/impl/DataReferenceMarshaller.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/DefaultSecurityConfigurationBootstrap.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/validator/SPKIDataSchemaValidator.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/X509Util.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/keyinfo/CollectionKeyInfoCredentialResolver.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/x509/PKIXTrustEngine.java  
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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/credential/criteria/EvaluableX509SubjectNameCredentialCriteria.java

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\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/security/trust/TrustedCredentialTrustEngine.java  
\* /opt/cola/permits/1114224941\_1607455166.13/0/xmltooling-1-4-4-sources-2-jar/org/opensaml/xml/signature/impl/NamedCurveMarshaller.java  
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#### Schema for XML Signatures

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\$Revision: 1.2 \$ on \$Date: 2005/06/03 03:09:54 \$ by \$Author: cantor \$

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## 1.363 jersey-media-json-jackson 2.24.1

## 1.364 websocket-client 9.3.27.v20190418

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## 1.367 jcommander 1.30

# 1.368 httpmime 4.3.6

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## 1.369 util 0.8.3-SNAPSHOT

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Manifest-Version: 1.0

Bnd-LastModified: 1466334126314

Build-Jdk: 1.7.0\_91

Built-By: jenkins

Bundle-DocURL: <https://www.opendaylight.org>

Bundle-License: <https://www.eclipse.org/legal/epl-v10.html>

Bundle-ManifestVersion: 2

Bundle-Name: util

Bundle-SymbolicName: org.opendaylight.yangtools.util

Bundle-Vendor: OpenDaylight

Bundle-Version: 0.8.3.SNAPSHOT

Created-By: Apache Maven Bundle Plugin

Export-Package: org.opendaylight.yangtools.util;version="0.8.3";uses:="com.google.common.base,java.xml.annotation,org.opendaylight.yangtools.concepts",org.opendaylight.yangtools.util.concurrent;version="0.8.3";uses:="com.google.common.base,com.google.common.util.concurrent,java.xml.annotation"

Import-Package: com.google.common.base;version="[18.0,19)",com.google.common.cache;version="[18.0,19)",com.google.common.collect;version="[18.0,19)",com.google.common.primitives;version="[18.0,19)",com.google.common.util.concurrent;version="[18.0,19)",com.romix.scala.collection.concurrent

```
rent;version="[0.2,1)",javax.annotation,org.opendaylight.yangtools.conc
epts;version="[0.8,1)",org.opendaylight.yangtools.util;version="[0.8,1)
",org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326
```

Found in path(s):

```
* /opt/cola/permits/1069083116_1685509485.9331932/0/util-0-8-3-jar/META-INF/MANIFEST.MF
```

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Found in path(s):

```
* /opt/cola/permits/1069083116_1685509485.9331932/0/util-0-8-3-jar/META-
INF/maven/org.opendaylight.yangtools/util/pom.xml
```

## 1.370 hibernate-validator 5.1.2.Final

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## 1.371 springsource-org-apache-xerces 2.9.1

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Found in path(s):

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/datatypes/package.html

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\*/

/\*\*

\* DOM Level 3 LS CR - Experimental.

\* Create a new `LSParser`. The newly constructed parser may  
\* then be configured by means of its `DOMConfiguration`  
\* object, and used to parse documents by means of its `parse`  
\* method.

\* @param mode The `mode` argument is either

\* `MODE_SYNCHRONOUS` or `MODE_ASYNCHRONOUS`, if

\* `mode` is `MODE_SYNCHRONOUS` then the

\* `LSParser` that is created will operate in synchronous

\* mode, if it's `MODE_ASYNCHRONOUS` then the

\* `LSParser` 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 `Document` using the

\* newly created `LSParser`. Note that no lexical checking

\* is done on the absolute URI. In order to create a

\* `LSParser` 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 [XML Schema Part 1]
* , applications must use the value
* <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [XML 1.0],
* 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 "error-handler"
* 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):

```

* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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```

```

/*

```

```

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*/

```

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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
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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

\*/

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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.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 Declarations Consistent.

\*/

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jar/org/apache/xerces/dom/DOMImplementationListImpl.java

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jar/org/w3c/dom/html/HTMLDOMImplementation.java

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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXInputSource.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSObject.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLParagraphElementImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSFacet.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java

\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java  
\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLWmlElement.java  
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java  
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java  
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\* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/XMLStringBuffer.java  
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xs/XSAnnotation.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/wml/WMLCardElement.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/XMLLocatorWrapper.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/util/EncodingMap.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xml/serialize/OutputFormat.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java

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* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xml/serialize/SerializerFactoryImpl.java
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jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1110916671_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-
jar/org/apache/xml/serialize/Method.java
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jar/org/apache/xerces/impl/xs/models/XSDFACM.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
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- \* /opt/cola/permits/1110916671\_1633387514.07/0/com-springsource-org-apache-xerces-2-9-1-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
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jar/javassist/bytecode/annotation/LongMemberValue.java
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jar/javassist/bytecode/annotation/CharMemberValue.java
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* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
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jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1150996738_1617746800.79/0/javassist-3-18-2-ga-sources-9-
jar/javassist/bytecode/annotation/EnumMemberValue.java
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jar/javassist/bytecode/annotation/ByteMemberValue.java
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jar/javassist/bytecode/annotation/ClassMemberValue.java
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Found in path(s):

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/CannotCompileException.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/StackMap.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/SerialVersionUID.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/ObjectNotFoundException.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/Bytecode.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/BinExpr.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/NewExpr.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/ByteArrayClassPath.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/FramePrinter.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/compiler/ast/Visitor.java

\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-

jar/javassist/tools/rmi/AppletServer.java  
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jar/javassist/compiler/ast/Declarator.java  
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jar/javassist/compiler/ast/Stmnt.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/compiler/ProceedHandler.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/bytecode/annotation/NoSuchClassError.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/CtBehavior.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/ClassMap.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/tools/rmi/StubGenerator.java  
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jar/javassist/scopedpool/ScopedClassPoolRepository.java  
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jar/javassist/bytecode/stackmap/TypedBlock.java  
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jar/javassist/bytecode/CodeAnalyzer.java  
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jar/javassist/util/proxy/FactoryHelper.java  
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jar/javassist/bytecode/stackmap/BasicBlock.java  
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jar/javassist/bytecode/AnnotationDefaultAttribute.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/Translator.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/bytecode/annotation/AnnotationsWriter.java  
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jar/javassist/bytecode/ClassFileWriter.java  
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jar/javassist/util/proxy/SecurityActions.java  
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jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java  
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jar/javassist/bytecode/BadBytecode.java  
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jar/javassist/tools/rmi/RemoteRef.java  
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jar/javassist/bytecode/LocalVariableTypeAttribute.java  
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jar/javassist/tools/rmi/ObjectImporter.java  
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jar/javassist/NotFoundException.java  
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jar/javassist/compiler/TokenId.java  
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jar/javassist/compiler/SymbolTable.java  
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jar/javassist/compiler/KeywordTable.java  
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jar/javassist/bytecode/SignatureAttribute.java  
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jar/javassist/compiler/SyntaxError.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/bytecode/ClassFile.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/Modifier.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/LoaderClassPath.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-  
jar/javassist/bytecode/CodeAttribute.java  
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jar/javassist/bytecode/ByteStream.java  
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jar/javassist/compiler/TypeChecker.java  
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jar/javassist/compiler/ast/FieldDecl.java

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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/CtNewWrappedMethod.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/compiler/JvstCodeGen.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/CtClassType.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/convert/TransformBefore.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/Analyzer.java  
\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/convert/Transformer.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/tools/rmi/Sample.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/analysis/Executor.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/tools/reflect/Sample.java  
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\* /opt/cola/permits/1150996738\_1617746800.79/0/javassist-3-18-2-ga-sources-9-jar/javassist/bytecode/Descriptor.java

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## 1.377 config 1.0.2

## 1.378 xz 1.5

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```
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 * FinishableWrapperOutputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 * You can do whatever you want with this file.
 */
```

Found in path(s):

```
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-
jar/org/tukaani/xz/FinishableWrapperOutputStream.java
```

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```
/*
 * DeltaDecoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

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```
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```

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\* SeekableFileInputStream

\*

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\* LZMA2Decoder

\*

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\* XZIOException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

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\* DeltaInputStream

\*

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\* IndexEncoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

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\* SHA256

\*

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\* IndexRecord

\*

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/\*

```
* DeltaOptions
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

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```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOptions.java
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```

```
/*
```

```
* DeltaCoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaCoder.java
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaCoder.java
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```

```
/*
```

```
* BCJ filter for little endian ARM instructions
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*         Igor Pavlov <http://7-zip.org/>
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/ARM.java
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```

```
/*
```

```
* IA64Options
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/IA64Options.java

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/\*

\* CountingOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CountingOutputStream.java

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\* RangeEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

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\* You can do whatever you want with this file.

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeEncoder.java

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/\*

\* IndexIndicatorException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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/\*

```
* DeltaOutputStream
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaOutputStream.java
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```

```
/*
* BCJOptions
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJOptions.java
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```

```
/*
* BCJ filter for x86 instructions
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*         Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
*/opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/X86.java
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```

```
/*
* XZFormatException
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
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*/
```

Found in path(s):

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/\*

\* FinishableOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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/\*

\* LZMAEncoderFast

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

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\* UncompressedLZMA2OutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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

/\*

\* BCJ filter for Itanium (IA-64) instructions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/IA64.java  
No license file was found, but licenses were detected in source scan.

/\*

\* BCJEncoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJEncoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* LZMA2Coder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Coder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* CRC32  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC32.java

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

/\*

\* 2-, 3-, and 4-byte hashing

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/Hash234.java

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

/\*

\* RangeDecoderFromBuffer

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeDecoderFromBuffer.java

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

/\*

\* SimpleInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SimpleInputStream.java

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

/\*

\* State

\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/State.java

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

/\*  
\* DecoderUtil  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/DecoderUtil.java

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

/\*  
\* LZMA2OutputStream  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2OutputStream.java

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

/\*  
\* Hash Chain match finder with 2-, 3-, and 4-byte hashing  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/HC4.java

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

/\*

\* XZ

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZ.java

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

/\*

\* LZEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZEncoder.java

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

/\*

\* RawCoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/RawCoder.java

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

/\*

\* SimpleOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SimpleOutputStream.java

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

/\*

\* SingleXZInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SingleXZInputStream.java

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

/\*

\* CRC32Hash

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/CRC32Hash.java

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

/\*

\* DeltaEncoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/DeltaEncoder.java

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/delta/DeltaEncoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* RangeDecoderFromStream

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeDecoderFromStream.java

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

/\*

\* LZMA2Encoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Encoder.java

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

/\*

\* LZDecoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/LZDecoder.java

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

/\*

\* UnsupportedOperationException

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/UnsupportedOptionsException.java

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

/\*

\* Util

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/Util.java

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

/\*

\* BCJ filter for little endian ARM-Thumb instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/ARMThumb.java

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

/\*

\* BlockOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BlockOutputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* SPARCOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SPARCOptions.java

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

/\*

\* XZOutputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZOutputStream.java

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

/\*

\* LZMAEncoderNormal

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoderNormal.java

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

/\*

\* SeekableInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SeekableInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*

\* IndexDecoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexDecoder.java  
No license file was found, but licenses were detected in source scan.

/\*

\* Matches

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/Matches.java  
No license file was found, but licenses were detected in source scan.

/\*

\* CountingInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CountingInputStream.java

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

```
/*
 * BCJCoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJCoder.java

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

```
/*
 * None
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/None.java

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

```
/*
 * BlockInfo
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/BlockInfo.java

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

```
/*
 * LZMACoder
 *
 * Authors: Lasse Collin <lasse.collin@tukaani.org>
 *         Igor Pavlov <http://7-zip.org/>
 *
 * This file has been put into the public domain.
```

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMACoder.java

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

/\*

\* BCJ filter for big endian PowerPC instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/PowerPC.java

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

/\*

\* IndexBase

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexBase.java

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

/\*

\* PowerPCOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/PowerPCOptions.java

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

/\*

```
* LZMA2InputStream
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2InputStream.java
```

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

```
/*
```

```
* FilterEncoder
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterEncoder.java
```

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

```
/*
```

```
* LZMAInputStream
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

```
* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMAInputStream.java
```

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

```
/*
```

```
* CRC64
*
* Author: Lasse Collin <lasse.collin@tukaani.org>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/CRC64.java

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

/\*

\* BCJ filter for SPARC instructions

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/SPARC.java

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

/\*

\* RangeCoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/rangecoder/RangeCoder.java

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

/\*

\* LZMAEncoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMAEncoder.java

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

/\*

\* MemoryLimitException  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/MemoryLimitException.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* ARMOptions  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/ARMOptions.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* FilterDecoder  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterDecoder.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* Binary Tree match finder with 2-, 3-, and 4-byte hashing  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
\* This file has been put into the public domain.  
\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lz/BT4.java

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

/\*

\* BCJ filter for little endian ARM instructions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/simple/SimpleFilter.java

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

/\*

\* Optimum

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

\* This file has been put into the public domain.

\* You can do whatever you want with this file.

\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/Optimum.java

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

/\*

\* Check

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/check/Check.java

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/\*\*

\* XZ data compression support.

\*

\* <h4>Introduction</h4>

```

* <p>
* This aims to be a complete implementation of XZ data compression
* in pure Java. Features:
* <ul>
* <li>Full support for the .xz file format specification version 1.0.4</li>
* <li>Single-threaded streamed compression and decompression</li>
* <li>Single-threaded decompression with limited random access support</li>
* <li>Raw streams (no .xz headers) for advanced users, including LZMA2
*   with preset dictionary</li>
* </ul>
* <p>
* Threading is planned but it is unknown when it will be implemented.
* <p>
* For the latest source code, see the
* <a href="http://tukaani.org/xz/java.html">home page of XZ for Java</a>.
*
* <h4>Getting started</h4>
* <p>
* Start by reading the documentation of { @link org.tukaani.xz.XZOutputStream }
* and { @link org.tukaani.xz.XZInputStream }.
* If you use XZ inside another file format or protocol,
* see also { @link org.tukaani.xz.SingleXZInputStream }.
*
* <h4>Licensing</h4>
* <p>
* XZ for Java has been put into the public domain, thus you can do
* whatever you want with it. All the files in the package have been
* written by Lasse Collin and/or Igor Pavlov.
* <p>
* This software is provided "as is", without any warranty.
*/

```

Found in path(s):

```

* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/package-info.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* RangeDecoder
*
* Authors: Lasse Collin <lasse.collin@tukaani.org>
*   Igor Pavlov <http://7-zip.org/>
*
* This file has been put into the public domain.
* You can do whatever you want with this file.
*/

```

Found in path(s):

```

* /opt/cola/permits/1110910299_1606872234.69/0/xz-1-5-sources-2-

```

jar/org/tukaani/xz/rangecoder/RangeDecoder.java

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```
/*
 * StreamFlags
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/StreamFlags.java

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

```
/*
 * FilterCoder
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
 * You can do whatever you want with this file.
 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterCoder.java

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```
/*
 * BlockInputStream
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
 * This file has been put into the public domain.
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 */
```

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BlockInputStream.java

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```
/*
 * EncoderUtil
 *
 * Author: Lasse Collin <lasse.collin@tukaani.org>
 *
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/common/EncoderUtil.java

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\* XZInputStream

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/XZInputStream.java

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/\*

\* LZMA2Options

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/LZMA2Options.java

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\* X86Options

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/X86Options.java

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\* IndexHash

\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/index/IndexHash.java  
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/\*

\* CorruptedInputException  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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\* You can do whatever you want with this file.  
\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/CorruptedInputException.java  
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\* FilterOptions  
\*  
\* Authors: Lasse Collin <lasse.collin@tukaani.org>  
\* Igor Pavlov <<http://7-zip.org/>>  
\*  
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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/FilterOptions.java  
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/\*

\* SeekableXZInputStream  
\*  
\* Author: Lasse Collin <lasse.collin@tukaani.org>  
\*  
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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/SeekableXZInputStream.java

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\* LZMADecoder

\*

\* Authors: Lasse Collin <lasse.collin@tukaani.org>

\* Igor Pavlov <<http://7-zip.org/>>

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/lzma/LZMADecoder.java

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/\*

\* BCJDecoder

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/BCJDecoder.java

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/\*

\* ARMThumbOptions

\*

\* Author: Lasse Collin <lasse.collin@tukaani.org>

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1110910299\_1606872234.69/0/xz-1-5-sources-2-jar/org/tukaani/xz/ARMThumbOptions.java

## 1.379 sesame-rio-trig 2.7.16

# 1.380 dom4j 1.6.1

## 1.380.1 Available under license :

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File: ConcurrentReaderHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

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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.

\*/

Found in path(s):

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ConcurrentReaderHashMap.java

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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/InvalidXPathException.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ProcessingInstruction.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/LeafTreeNode.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPath.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/IndexedElement.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultAttribute.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Branch.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableColumnDefinition.java  
 \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/AttributeHelper.java

- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NodeComparator.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/SingleIterator.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XPPReader.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Node.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/NullAction.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentHelper.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentSource.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractNode.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocument.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventWriter.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractText.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractBranch.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXEventRecorder.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMNamespace.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightEntity.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyElement.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/NamespaceStack.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BaseElement.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMEElement.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/pattern/NodeTypePattern.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBRuntimeExcpetion.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpp/ProxyXmlStartTag.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttribute.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Stylesheet.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMEntityReference.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightAttribute.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultText.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLResult.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMNodeHelper.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/XPathException.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractElement.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Namespace.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Pattern.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMWriter.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/IllegalAddException.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMCDATA.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeDocumentFactory.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/AttributeDecl.java
- \* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-

jar/org/dom4j/util/UserDataDocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBWriter.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Attribute.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanDocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ElementHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightText.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/JAXPHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/PerThreadSingleton.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/QNameCache.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/VisitorSupport.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentResult.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Entity.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/NodeFilter.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultElement.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Rule.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CharacterData.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/PruningDispatchHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMDocumentType.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBSupport.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/ElementStack.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/DefaultXPath.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/XMLWriter.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/STAXEventReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/swing/XMLTableDefinition.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyContentHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXValidator.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/jaxb/JAXBReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FilterIterator.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/BackedList.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentException.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Comment.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/ExternalEntityDecl.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DOMReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/XMLErrorHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Text.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/InvalidSchemaException.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-

jar/org/dom4j/swing/BranchTreeNode.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dtd/ElementDecl.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractEntity.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/HTMLWriter.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeAttribute.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/UserDataElement.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/DocumentType.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyElementHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultNamespace.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/RuleManager.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Action.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementNameIterator.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/QName.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/NonLazyDocumentFactory.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultDocument.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/datatype/DatatypeElementFactory.java  
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jar/org/dom4j/swing/XMLTableModel.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanMetaData.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DispatchHandler.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
jar/org/dom4j/tree/ContentListFacade.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/Document.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
jar/org/dom4j/rule/pattern/DefaultPattern.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/ElementPath.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/ElementIterator.java  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
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\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
jar/org/dom4j/xpath/DefaultNamespaceContext.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-  
jar/org/dom4j/dom/DOMDocumentFactory.java

\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifyException.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractProcessingInstruction.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/xpath/XPathPattern.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/CDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCharacterData.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXReader.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/rule/Mode.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/FlyweightCDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/DefaultEntity.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/dom/DOMAttribute.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXHelper.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/util/ProxyDocumentFactory.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanAttributeList.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/bean/BeanElement.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/tree/AbstractCDATA.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/DocumentInputSource.java  
\* /opt/cola/permits/1150916825\_1617719489.56/0/dom4j-1-6-1-sources-4-jar/org/dom4j/io/SAXModifier.java

## 1.381 metrics-json 4.1.0

## 1.382 classmate 1.0.0

### 1.382.1 Available under license :

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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# 1.383 javax-inject 1

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```
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Singleton.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Inject.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Scope.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Qualifier.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Named.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/Provider.java  
* /opt/cola/permits/1000738314_1646171489.14/0/javax-inject-1-sources-jar/javax/inject/package-info.java
```

# 1.384 swagger-models 0.8.8

# 1.385 jersey-common 2.24.1

# 1.386 asm-all-repackaged 2.5.0-b05

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jar/org/glassfish/hk2/external/org/objectweb/asm/TypePath.java  
\* /opt/cola/permits/1111264248\_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-  
jar/org/glassfish/hk2/external/org/objectweb/asm/TypeReference.java  
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jar/org/glassfish/hk2/external/org/objectweb/asm/tree/package.html  
\* /opt/cola/permits/1111264248\_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-  
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jar/org/glassfish/hk2/external/org/objectweb/asm/package.html

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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.
*/

```

Found in path(s):

```

* /opt/cola/permits/1111264248_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/commons/AnalyzerAdapter.java

```

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\* /opt/cola/permits/1111264248\_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/xml/SAXAnnotationAdapter.java

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*/
/**
 * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
 * constructor. 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.
 */

```

Found in path(s):

```

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*/
/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

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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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```
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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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\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FrameNode.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/ASMifier.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/ParameterNode.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/AnnotationRemapper.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/analysis/BasicInterpreter.java

\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/commons/TableSwitchGenerator.java

\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/FieldNode.java

\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/LineNumberNode.java

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\* /opt/cola/permits/1111264248\_1606891424.56/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/tree/TryCatchBlockNode.java

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\* /opt/cola/permits/1111264248\_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-jar/org/glassfish/hk2/external/org/objectweb/asm/FieldWriter.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 first 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.
*/
```

Found in path(s):

```
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```

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* /opt/cola/permits/1111264248_1606891424.56/0/asm-all-repackaged-2-5-0-b05-sources-1-
jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink-resize.properties
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jar/org/glassfish/hk2/external/org/objectweb/asm/optimizer/shrink.properties
```

## 1.387 shiro-core 1.6.0

## 1.387.1 Available under license :

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jar/org/springframework/aop/IntroductionInfo.java
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\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/MethodMatchers.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/TrueMethodMatcher.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/ProxyMethodInvocation.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/support/Pointcuts.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/CommonsPoolTargetSource.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/target/AbstractPoolingTargetSource.java  
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\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/DefaultAopProxyFactory.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java

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\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java  
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- \* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/aopalliance/intercept/MethodInterceptor.java
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- \* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-  
jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-  
jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-  
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\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-  
jar/org/aopalliance/intercept/ConstructorInterceptor.java  
\* /opt/cola/permits/1147791627\_1617249309.89/0/spring-aop-4-3-19-release-sources-3-  
jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java  
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jar/org/springframework/aop/BeforeAdvice.java  
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jar/org/springframework/aop/ClassFilter.java  
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jar/org/springframework/aop/RawTargetAccess.java  
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jar/org/springframework/aop/AfterAdvice.java  
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jar/org/springframework/aop/SpringProxy.java  
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jar/org/springframework/aop/framework/AopInfrastructureBean.java

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jar/org/springframework/aop/target/ThreadLocalTargetSource.java
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- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/JsonSerializer.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/filter/SpecFilter.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/AuthorizationModels.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ReaderUtil.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/ModelUtil.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/TypeUtil.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/core/util/JsonUtil.scala
- \* /opt/cola/permits/1112015812\_1607033965.08/0/swagger-core-2-10-1-3-5-sources-1-jar/com/wordnik/swagger/model/SwaggerModels.scala

# 1.390 spring-security-acl 3.2.4.RELEASE

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```

Found in path(s):

- \* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/model/Acl.java
- \* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/PrincipalSid.java
- \* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/BasePermission.java
- \* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-

jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationProvider.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AclCache.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AuditableAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/MutableAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ObjectIdentityRetrievalStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AuditableAccessControlEntry.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/AbstractAclProvider.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/CumulativePermission.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/EhCacheBasedAclCache.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/OwnershipAcl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/IdentityUnavailableException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/Permission.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AclService.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ObjectIdentityImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AlreadyExistsException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/GrantedAuthoritySid.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/MutableAclService.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/Filterer.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/jdbc/LookupStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/AccessControlEntry.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AclAuthorizationStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/Sid.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/SidRetrievalStrategyImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/ConsoleAuditLogger.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-

jar/org/springframework/security/acls/afterinvocation/AclEntryAfterInvocationCollectionFilteringProvider.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AclAuthorizationStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AclImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/CollectionFilterer.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/ObjectIdentity.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/jdbc/BasicLookupStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/jdbc/JdbcMutableAclService.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/AclEntryVoter.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/afterinvocation/ArrayFilterer.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/NotFoundException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/UnloadedSidException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AclFormattingUtils.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/ObjectIdentityRetrievalStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/SidRetrievalStrategy.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/model/ChildrenExistException.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AccessControlEntryImpl.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/jdbc/JdbcAclService.java  
\* /opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-  
jar/org/springframework/security/acls/domain/AuditLogger.java  
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\*/opt/cola/permits/1114224794\_1607455091.57/0/spring-security-acl-3-2-4-release-sources-jar/org/springframework/security/acls/domain/SpringCacheBasedAclCache.java

## 1.391 jtoml 1.0.0

## 1.392 spring-security-core 3.2.4.RELEASE

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```

Found in path(s):

\*/opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionOperations.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
 */

```

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/codec/Base64.java

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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/method/P.java

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.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

\*/

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/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):

`/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/Md4PasswordEncoder.java`  
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 */
```

/\*\*

\* Reviews the `Object` returned from a secure object invocation,  
\* being able to modify the `Object` 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 `Collection` elements.

\* `<p>`

\* Special consideration should be given to using an

\* `AfterInvocationManager` on bean methods that modify a database.  
\* Typically an `AfterInvocationManager` is used with read-only  
\* methods, such as `public DomainObject getById(id)`. If used with  
\* methods that modify a database, a transaction manager should be used to  
\* ensure any `AccessDeniedException` will cause a rollback of the  
\* changes made by the transaction.  
\* `</p>`  
\*  
\* @author Ben Alex  
\*/

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/AfterInvocationManager.java  
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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  
 */
```

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/PermissionEvaluator.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  
 */
```

Found in path(s):

\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/expression/SecurityExpressionOperations.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
*/
```

Found in path(s):

```
*/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/authentication/encoding/Md4.java
```

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Found in path(s):

```
*/opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java
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- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/MethodInvocationUtils.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/util/SimpleMethodInvocation.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/AccessDeniedException.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/encoding/PasswordEncoder.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/RunAsUserToken.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/session/SessionRegistry.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/User.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/core/userdetails/UserDetails.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/SecurityMetadataSource.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/vote/AuthenticatedVoter.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/access/annotation/Secured.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java

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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java

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* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
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* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/cola/permits/1114224851_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
```

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jar/org/springframework/security/crypto/bcrypt/BCrypt.java
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- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/Encryptors.java
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- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
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- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
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- \* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java

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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java  
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\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java  
\* /opt/cola/permits/1114224851\_1607455148.91/0/spring-security-core-3-2-4-release-sources-3-jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java  
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```

```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

Found in path(s):

```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/META-
INF/services/org.codehaus.groovy.transform.ASTTransformation
```

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```
/** 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
```

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- \* John Pybus           john@pybus.org
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- \* 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 Eliassen 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.g.1
    - \* o I have taken java.g for Java 1.5 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 mkempff, 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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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

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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>'
- \*
  - \* Contributing authors:
  - \* Jeremy Rayner groovy@ross-rayner.com
  - \* John Mitchell johnm@non.net
  - \* Terence Parr parrt@magelang.com
  - \* John Lilley jlilley@empathy.com
  - \* Scott Stanchfield thetick@magelang.com
  - \* Markus Mohnen mohnen@informatik.rwth-aachen.de
  - \* Peter Williams pete.williams@sun.com
  - \* 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 Eliassen 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 Java 1.5 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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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/CastExpressionOptimizer.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/IFilenameFinder.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/ASTTest.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/SpreadMapEvaluatingException.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ASTTransformationCollectorCodeVisitor.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/tools/javac/RawJavaFileObject.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/AbstractLexer.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/SortableASTTransformation.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java

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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/runtime/wrappers/ShortWrapper.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/logging/Slf4j.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-  
jar/org/codehaus/groovy/classgen/asm/WriterController.java  
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jar/org/codehaus/groovy/control/customizers/builder/CompilerCustomizationBuilder.groovy  
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jar/org/codehaus/groovy/control/io/StringReaderSource.java

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\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Synchronized.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/Internal.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/wrappers/DoubleWrapper.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/internal/util/UnicodeConst.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/MetaClassSite.java  
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/atnmanager/AtnManager.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/NamedParam.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/Antlr4PluginFactory.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple5.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaObjectProtocol.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MissingClassException.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/TupleConstructor.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/MapEntryOrKeyValue.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NullObject.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/ParameterTypes.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/CachedField.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Grapes.java
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- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/util/ArrayIterator.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Reference.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GeneratedGroovyProxy.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/Expando.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/tools/GenericsUtils.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/OperandStack.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ResourceException.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Category.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/ErrorCollecting.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/syntax/RuntimeParserException.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodCallerMultiAdapter.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/apache/groovy/parser/antlr4/internal/DescriptiveErrorStrategy.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/DateGroovyMethods.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/stc/ThirdParam.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/GroovyCallable.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/vmplugin/v7/CacheableCallSite.java
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
- \* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-

jar/groovy/transform/stc/SimpleType.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/runtime/ProxyGeneratorAdapter.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/AutoExternalize.groovy  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/Tuple13.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/ASTNode.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/expr/MethodReferenceExpression.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/FieldASTTransformation.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/TypeChecked.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/lang/MetaArrayLengthProperty.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/ast/Variable.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/util/ObservableSet.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/groovy/transform/MapConstructor.java  
\* /opt/cola/permits/1200735281\_1630953839.08/0/groovy-3-0-8-sources-1-jar/org/codehaus/groovy/transform/trait/TraitHelpersTuple.java  
No license file was found, but licenses were detected in source scan.

/\*

\* 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
*/
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
: gstringValue
| closure
;

gstringValue
: 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
: LBSTACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
;

// STATEMENTS / BLOCKS

block
: LBSTACK sep? blockStatementsOpt RBRACK
;

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 resolve 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.
  // Though this is not a graceful solution, it is much faster than replacing `builtInType` with `type`
  HashMap<String, Integer>::new
  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):

```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-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):

```
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/META-  
INF/groovy/org.codehaus.groovy.source.Extensions
```

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

```
/*  
* This file is adapted from the Antlr4 Java grammar which has the following license  
*
```

```

* Copyright (c) 2013 Terence Parr, Sam Harwell
* All rights reserved.
* [The "BSD licence"]
*
* http://www.opensource.org/licenses/bsd-license.php
*
* Subsequent modifications by the Groovy community have been done under the Apache License v2:
*
* 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.
*/

/**
* 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 overridden 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
```

```
  : [LiIgG]  
  ;
```

```
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        : '/';
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):
* /opt/cola/permits/1200735281_1630953839.08/0/groovy-3-0-8-sources-1-jar/GroovyLexer.g4

```

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[3] <http://www.microsoft.com/interop/osp/>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ECMA-376%20Edition%201%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/ga-2006-191.pdf>

DOM4J library (dom4j-1.6.1.jar)

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JUnit test library (junit-3.8.1.jar)

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Last revised by Reagle \$Date: 2005/06/03 22:49:13 \$

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<thirdparty-licenses>
  <module name='ant'
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    version='1.8.2'
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    description='ANT launcher (compile time)'>
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  description='Used for unit testing'>
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</module>
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  version='2.4.D1'
  projectHome='http://xml.apache.org/xalan-j/'
  description='Xalan-Java is an XSLT processor for transforming XML documents.
    Used to generate HTML test reports from XML (testing time)'>
  <jar name='xalan.jar' />
</module>
</thirdparty-licenses>

```

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# 1.404 byte-buddy 1.10.15

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\* Project home: <https://projects.eclipse.org/projects/ee4j.jaxb>

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## Source Code

The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaxb-api>

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# 1.410 websocket-common 9.3.27.v20190418

## 1.411 spring-boot 1.5.12.RELEASE

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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ErrorMessageRegistrar.java  
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- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/SpringBootJoranConfigurator.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/SpringBootVersion.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonJsonParser.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationPid.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ansi/AnsiStyle.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/SpringProfileAction.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationPropertiesBinding.java
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- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/XmlEmbeddedWebApplicationContext.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/liquibase/CommonsLoggingLiquibaseLogger.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/lang/package-info.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/json/JsonParserFactory.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertyOrigin.java
- \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosConnectionFactoryBean.java
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationBeanFactoryMetaData.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ApplicationTemp.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/ExtendedWhitespaceThrowablePatternConverter.java  
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatEmbeddedServletContainerFactory.java  
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/undertow/UndertowEmbeddedServletContainerFactory.java

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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/client/RestTemplateBuilder.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/MultipartConfigFactory.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertySourcesPropertyValues.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedServletContainer.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/filter/ApplicationContextHeaderFilter.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/AnsiOutputApplicationListener.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/AbstractEmbeddedServletContainerFactory.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LoggingApplicationListener.java

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  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/package-info.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/WebApplicationContextServletContextAwareProcessor.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/config/DelegatingApplicationContextInitializer.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/TomcatConnectorCustomizer.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/ConfigurationPropertiesBindingPostProcessorRegistrar.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/java/SimpleFormatter.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/LogLevel.java
  - \* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/tomcat/package-info.java
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/bind/PropertyNamePatternsMatcher.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/atomikos/AtomikosXAConnectionFactoryWrapper.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/log4j2/package-info.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/liquibase/SpringPackageScanClassResolver.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/embedded/jetty/JettyEmbeddedWebApplicationContext.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/env/package-info.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/properties/package-info.java  
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/context/event/SpringApplicationEvent.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/orm/jpa/package-info.java

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

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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/ExitCodeGenerator.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/jta/narayana/NarayanaRecoveryManagerBean.java  
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\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/web/servlet/ServletComponentRegisteringPostProcessor.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/builder/ParentContextApplicationContextInitializer.java  
\* /opt/cola/permits/1112362180\_1607072345.87/0/spring-boot-1-5-12-release-sources-jar/org/springframework/boot/logging/logback/ColorConverter.java  
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jar/org/springframework/boot/json/JacksonJsonParser.java
* /opt/cola/permits/1112362180_1607072345.87/0/spring-boot-1-5-12-release-sources-
jar/org/springframework/boot/diagnostics/FailureAnalyzers.java

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## 1.412 cglib-nodep 3.1

### 1.412.1 Available under license :

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</HEAD>

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# 1.415 opentracing-noop 0.31.0

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\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

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\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracer.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpan.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanContext.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java

# 1.416 drools-osgi-integration 6.5.0.Final

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Found in path(s):

```
* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-
jar/org/drools/osgi/spring/OsgiKModuleBeanFactoryPostProcessor.java
* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-
jar/org/drools/osgi/compiler/OsgiKieModule.java
* /opt/cola/permits/1095510544_1601467137.06/0/drools-osgi-integration-6-5-0-final-sources-1-
jar/org/drools/osgi/spring/OsgiApplicationContextFactory.java
```

# 1.417 spring-expression 4.3.19.RELEASE

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\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/IntLiteral.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelParseException.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ParseException.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FloatLiteral.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/ExpressionException.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/LongLiteral.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/TokenKind.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/BooleanLiteral.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/EvaluationException.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpNE.java

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\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/PropertyAccessor.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-

jar/org/springframework/expression/spel/ast/OpGT.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/Assign.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OperatorPower.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OperatorBetween.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/InlineList.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OpOr.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/support/StandardTypeLocator.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/Literal.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OpGE.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OpLE.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/Identifier.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/StringLiteral.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/standard/Token.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OpLT.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/SpelCompilerMode.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/common/ExpressionUtils.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/SpelNode.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/VariableReference.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/OperatorNot.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/InlineMap.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/CompiledExpression.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-

jar/org/springframework/expression/spel/ast/AstUtils.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/standard/SpelExpressionParser.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/CompilablePropertyAccessor.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/TypedValue.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/ast/RealLiteral.java  
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jar/org/springframework/expression/spel/support/StandardOperatorOverloader.java  
\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/InternalParseException.java  
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- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpDivide.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Selection.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpMultiply.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpMinus.java

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- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpInc.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/common/CompositeStringExpression.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Projection.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpAnd.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/ReflectionHelper.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OpDec.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/OperatorOverloader.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/standard/SpelCompiler.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/NullLiteral.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/common/LiteralExpression.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/AccessException.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/CompoundExpression.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Ternary.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ExpressionState.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/BeanReference.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/Expression.java
- \* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-

jar/org/springframework/expression/spel/SpelParserConfiguration.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-

jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java

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jar/org/springframework/expression/TypeConverter.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/MethodExecutor.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/ConstructorExecutor.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/ParserContext.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/TypeComparator.java

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jar/org/springframework/expression/MethodFilter.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/ExpressionInvocationTargetException.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/MethodResolver.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/ConstructorResolver.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/spel/support/BooleanTypedValue.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/Operation.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/common/TemplateParserContext.java

\* /opt/cola/permits/1147791610\_1617098520.93/0/spring-expression-4-3-19-release-sources-2-  
jar/org/springframework/expression/TypeLocator.java

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 */
```

Found in path(s):

```
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/ValueRef.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Indexer.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/CodeFlow.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/Operator.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/SpelMessage.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
```

```
jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/DataBindingMethodResolver.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/EvaluationContext.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/OpEQ.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/Elvis.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/standard/Tokenizer.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/ast/TypeCode.java
* /opt/cola/permits/1147791610_1617098520.93/0/spring-expression-4-3-19-release-sources-2-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
```

## 1.418 antlr-runtime 4.5.1

## 1.419 jackson-core 2.10.4

### 1.419.1 Available under license :

# 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, as well as supported commercially by FasterXML.com.

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# 1.420 httpcore-nio 4.3.2

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# 1.421 trove4j 3.0.3

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\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXSimpleType.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXPackage.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXMethod.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/TypeEnvironment.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/annotationfactory/AnnotationDescriptor.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/XPackage.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/Pair.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/IdentityTypeEnvironment.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXCollectionType.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/TypeSwitch.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/ReflectionUtil.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/ApproximatingTypeEnvironment.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-

jar/org/hibernate/annotations/common/annotationfactory/AnnotationFactory.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/ReflectionManager.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXClass.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/TypeUtils.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/generics/TypeEnvironmentFactory.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXMember.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaReflectionManager.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaAnnotationReader.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/AssertionFailure.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/java/JavaXType.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/Filter.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/util/StringHelper.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/Version.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/util/ReflectHelper.java  
\* /opt/cola/permits/1110676380\_1654022832.3629677/0/hibernate-commons-annotations-3-2-0-final-sources-2-  
jar/org/hibernate/annotations/common/reflection/XAnnotatedElement.java

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/**
 * Strategy interface for translating between { @link SQLException SQLExceptions }
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 * 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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- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/SqlOperation.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/LobRetrievalFailureException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/PassThroughClob.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/Jdbc4NativeJdbcExtractor.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/MetaDataAccessException.java
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- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/SQLWarningException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java

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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreatorUtils.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java

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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java  
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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/PreparedStatementCreator.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.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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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobHandler.java

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jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.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:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>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.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 *
 * <p>This package and related packages are discussed in Chapter 9 of
 * <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
 * Development</a>
 * by Rod Johnson (Wrox, 2002).
 */
```

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jar/org/springframework/jdbc/package-info.java  
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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionHandle.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java  
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Found in path(s):

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSet.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/StatementCreatorUtils.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/TemporaryLobCreator.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataContext.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcUtils.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/BatchSqlUpdate.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java

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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java

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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlInOutParameter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/SybaseAnywhereMaxValueIncrementer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/PostgreSQLSequenceMaxValueIncrementer.java  
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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java  
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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLErrorCodesFactory.java  
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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/JdbcAccessor.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java  
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- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/StoredProcedure.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-

jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java  
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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.
*/

```

Found in path(s):

```

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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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></p>: 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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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/lob/LobCreator.java

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\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DB2MainFrameSequenceMaxValueIncrementer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java

\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/MappingSqlQuery.java

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  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
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  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcNativeJdbcExtractor.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
  - \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcOperations.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/BatchUpdateUtils.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/object/RdbmsOperation.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/RowMapper.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/JdbcTemplate.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/SqlParameterValue.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
- \* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-

jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/SqlOutParameter.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/ParameterDisposer.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/support/SqlLobValue.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/support/DatabaseStartupValidator.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcOperations.java  
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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})
 */

```

Found in path(s):

```

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/ParameterMapper.java

```

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```

Found in path(s):

```

* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-
jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /opt/cola/permits/1147791467_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-

```

jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java  
\* /opt/cola/permits/1147791467\_1617249321.58/0/spring-jdbc-4-3-19-release-sources-3-  
jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java

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## 1.437 spring-aspects 4.3.19.RELEASE

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```
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/context/annotation/aspectj/EnableSpringConfigured.java  
* /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/beans/factory/aspectj/ConfigurableObject.java
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```
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AbstractInterfaceDrivenDependencyInjectionAspect.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/transaction/aspectj/AspectJTransactionManagementConfiguration.java
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/scheduling/aspectj/AspectJAsyncConfiguration.java
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AbstractMethodMockingControl.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/MockStaticEntityMethods.java
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/cache/aspectj/AbstractCacheAspect.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/orm/jpa/aspectj/JpaExceptionTranslatorAspect.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AnnotationBeanConfigurerAspect.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/cache/aspectj/JCacheCacheAspect.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/mock/staticmock/AnnotationDrivenStaticEntityMockingControl.aj
 * /opt/cola/permits/1147791550_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-
jar/org/springframework/beans/factory/aspectj/AbstractDependencyInjectionAspect.aj
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\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/scheduling/aspectj/AbstractAsyncExecutionAspect.aj

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\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/transaction/aspectj/AbstractTransactionAspect.aj

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\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AnyThrow.java  
\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/transaction/aspectj/JtaAnnotationTransactionAspect.aj  
\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/context/annotation/aspectj/SpringConfiguredConfiguration.java  
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\* /opt/cola/permits/1147791550\_1617098641.11/0/spring-aspects-4-3-19-release-sources-2-jar/org/springframework/cache/aspectj/AspectJCacheConfiguration.java

## 1.438 websocket-api 9.3.27.v20190418

# 1.439 jbool-expressions 1.22

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```
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/ConstraintDeclarationException.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/ValidatorFactory.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1125288542_1611281834.47/0/validation-api-1-0-0-ga-sources-
jar/javax/validation/groups/package-info.java
```

\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ReportAsSingleViolation.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidatorFactory.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Size.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/spi/ValidationProvider.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/Past.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/AssertFalse.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/Validator.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/Valid.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintDefinitionException.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/GroupDefinitionException.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/DecimalMax.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/Validation.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/groups/Default.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/MessageInterpolator.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintViolation.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/UnexpectedTypeException.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/constraints/NotNull.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/Configuration.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidator.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/ConstraintDescriptor.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ValidationProviderResolver.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/ConstraintValidatorContext.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/metadata/PropertyDescriptor.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-

jar/javax/validation/ConstraintViolationException.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/ValidatorContext.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/TraversableResolver.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/Payload.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/metadata/BeanDescriptor.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/bootstrap/GenericBootstrap.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/OverridesAttribute.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/Path.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/constraints/DecimalMin.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/constraints/AssertTrue.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/constraints/Pattern.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/Constraint.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/constraints/Digits.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/constraints/Null.java  
\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-  
jar/javax/validation/ValidationException.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1125288542\_1611281834.47/0/validation-api-1-0-0-ga-sources-jar/javax/validation/GroupSequence.java

## 1.441 fast-infoset 1.2.15

## 1.442 sesame-rio-trix 2.7.16

## 1.443 swagger-models 1.5.0

### 1.443.1 Available under license :

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):

\* /opt/cola/permits/1110914972\_1611184211.75/0/swagger-models-1-5-0-sources-jar/io/swagger/models/License.java

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

```
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):

\* /opt/cola/permits/1110914972\_1611184211.75/0/swagger-models-1-5-0-sources-jar/io/swagger/models/Info.java

## 1.444 concepts 0.8.4-Beryllium-SR4

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## 1.445 commons-cli 1.1

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# 1.446 jetty-util 9.3.27.v20190418

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